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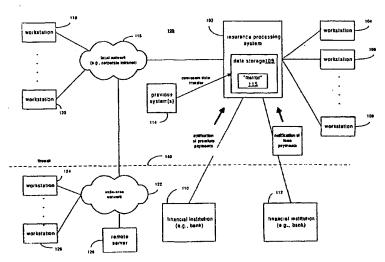
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(54) Title: SYSTEM AND METHOD FOR ADMINISTERING A FINANCIAL PROGRAM INVOLVING THE COLLECTION OF PAYMENTS



(57) Abstract: A system for administering a financial program (102) involves the collection of payments. The system includes a debit system for coordinating the administration of the financial program, which includes interface logic for allowing a user to interact with the debit system (110), and bach processing logic for performing bach processing associated with the financial program. The system further includes at least one support system coupled to the debit system for handling an aspect of the administrating of the financial program, and for communicating with the debit system. The system further includes a data storage (109) for storing data tables (114) used by the debit system in the administration of the financial program. The data storage also includes a representation of information as maintained by a retired system previously used for administering the financial program. In a preferred embodiment, the financial program is an insurance program with payment due dates occurring weekly or monthly.

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 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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# SYSTEM AND METHOD FOR ADMINISTERING A FINANCIAL PROGRAM INVOLVING THE COLLECTION OF PAYMENTS

#### BACKGROUND OF THE INVENTION

The present invention generally relates to a system and method for administering a financial program involving the collection of payments. In a more particular embodiment, the present invention relates to a system and method for administering an insurance program involving the collection of payments pertaining to life insurance policies.

Financial programs commonly require the processing of a large amount of information on a periodic basis. A typical insurance program, for instance, involves the periodic collection and processing of premium payments from its customers. Hence, it is not surprising that the financial fields have traditionally relied heavily on the use of computers to automate these tasks. For instance, computer technology has been frequently used in the financial fields since at least the 1970's.

Many financial programs provide services to customers over an extended period of time. For instance, brokerage systems and banking-related systems are expected to provide uninterrupted service to their customers for as long as the customers choose to receive the services, which may extend over decades. This is also particularly true of life insurance programs. A life insurance program is expected to provide uninterrupted and reliable service to a customer from the issuance of a policy to the customer to the policy's termination (e.g., at the customer's death). The period of service in this case may extend over a significant portion of the customer's life.

The relatively long commitment associated with insurance programs may result in the use of out-of-date computer equipment to implement the programs. For instance, some financial providers may be reticent to makes changes to their existing systems due to the perceived difficulty in transferring control from an "old system" that interacts with an "old database," to a "new system" that interacts with a "new database." Such a transfer must be performed without jeopardizing the integrity of stored data, and without interrupting the continuum of services provided to the customers. It is not always clear

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how to make the transition from an old system to a new system, while satisfying the above quality-of-service constraints.

More specifically, as appreciated by the present inventors, it would be desirable to convert data obtained from a prior system in a manner that does not require continued access to the prior system. This is because the prior system may maintain the data using an execution platform that differs from the new system, making data transfer problematic. The difficulty in data transfer may further be compounded by the fact that such data may be stored in the prior system in multiple and/or complexly-structured data files. At the same time, as appreciated by the present inventors, it would be desirable to maintain some flexibility in converting data from the prior system to the new system. For instance, systems that have been in existence for many years may suffer from corrupted data, missing (lost) data, and/or corrupted or lost program code. As appreciated by the present inventors, these anomalies may render it difficult to transfer data and logic to a new system as a one-time effort. Rather, a system designer may find it desirable to change the methodology of data conversion as work on the new system proceeds (thus making flexibility in data transfer a useful feature). There is no indication in the known prior art of how to address these problems. Indeed, there is no indication that others had the insight to even articulate the problems in the manner stated above.

Still other providers may be unwilling to make changes to their systems because of insufficient interest in the programs. For instance, a provider may be contractually obligated to maintain services for a group of existing subscribers, but may have otherwise turned his attention to other commercial endeavors (which may be regarded as more profitable). Such a provider may have insufficient incentive to modify a system that is functional, but is not operating at satisfactory efficiency.

For the above-stated reasons, some providers may administer financial programs using sub-optimal technical platforms for extended periods of time, such as sub-optimal mainframe-based technology. This may prevent the providers from operating their programs at satisfactory levels of efficiency. Further, the use of out-dated technical platforms may result in errors caused by program-related and hardware "glitches." The

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end of the millennium may present yet another time-based source of errors for these systems.

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It is possible to upgrade existing systems in piecemeal fashion by changing selected tables in a computer system's database, adding additional processing capacity, adding enhanced network accessibility, etc. However, if not designed carefully, such piecemeal improvements may result in compatibility problems between the existing systems and the new components.

Even those financial providers that make a commitment to fully upgrade their technical platforms may not produce a satisfactory system. For instance, some forms of life insurance programs require frequent processing of payments from customers. For instance, systems known as "debit" insurance programs or "industrial insurance" programs require collection of life insurance premium information on a relatively frequently basis, such as on a weekly or monthly (or some other relatively short period of time). This feature may introduce a heavy load on the insurance-providing system, and may also place a significant burden on the personnel who must interact with the system to process the payments and to perform maintenance on the policies. A technical solution that does not adequately address the unique features of these "frequent-collection" services is apt to provide a system that is inefficient, error-prone, and/or cumbersome to use. Such factors may ultimately result in the reduced profitability of the insurance program.

The patent literature includes several examples of the use of computer technology in the financial fields. An exemplary collection of insurance-related patents include: U.S. Patent No. 5,429,506 (Method and System for Processing Federally Insured Annuity and Life Insurance Investments); U.S. Patent No. 5,479,344 (Insurance Computation Display); U.S. Patent No. 5,631,828 (Life Insurance Method, and System); U.S. Patent No. 5,752,236 (Method of Computerized Administration of a Life Insurance Plan Using Computerized Administration Supervisory System); and U.S. Patent No. 6,041,304 (System and Method for Controlling the Cash Value Growth of an Insurance policy).

However, there is no indication that the systems described in these patents will provide a fully sufficient solution to the above-identified problems. More specifically,

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there is no indication that these systems provide a fully satisfactory means for transitioning from an "existing system" to a "new system." There is also no indication that these systems provide a fully satisfactory means for administering some of the unique types of insurance programs described above, such as policies that require the collection of payments on a relatively frequent basis.

There is accordingly a need for a more efficient system and method for administering an insurance program

#### SUMMARY OF THE INVENTION

The present invention addresses the above-identified needs, as well as additional unspecified needs.

One exemplary aspect of the invention pertains to a system for administering a financial program involving the collection of payments. The system includes a debit system for coordinating the administration of the financial program, which, in turn, includes interface logic for allowing a user to interact with the debit system, and batch processing logic for performing batch processing associated with the financial program. The system further includes at least one support system coupled to the debit system for handling an aspect of the administration of the financial program, and for communicating with the debit system. The system further includes a data storage for storing data tables used by the debit system in the administration of the financial program. The data storage also includes a representation of information as maintained by a retired system previously used for administering the financial program.

In another exemplary aspect of the invention, the interface logic includes at least one of: interface logic for performing basic policy maintenance; interface logic for administering billing and premium payment; interface logic for performing waiver processing; interface logic for performing loan processing; interface logic for performing cash surrender value processing; interface logic for performing extended value processing; interface logic for performing system-related maintenance; and interface logic for accessing the representation of information as maintained by the retired system.

In another exemplary aspect of the invention, the financial program involves the performance of plural processing routines to handle different aspects of the financial program, and the system includes functionality that facilitates interaction between these different processing routines.

In a preferred embodiment, the financial program is an insurance program. In a further preferred embodiment, the insurance program includes payment due dates occurring weekly or monthly.

#### BRIEF DESCRIPTION OF THE DRAWINGS

Other features of the present invention will be apparent from consideration of the following Detailed Description, in conjunction with the accompanying drawings, in which:

- FIG. 1 shows an exemplary system for implementing the present invention;
- FIG. 2 shows an exemplary insurance processing system for use in the system of FIG. 1;
  - FIG. 3 shows an exemplary workstation for use in the system of FIG. 1;
- FIG. 4 shows an exemplary premium processing routine according to the present invention;
  - FIG. 5 shows an exemplary loan processing routine according to the present invention;
- FIG. 6 shows an exemplary waiver processing routine according to the present invention;
  - FIG. 7 shows an exemplary cash surrender processing routine according to the present invention;
  - FIG. 8 shows an exemplary extended values processing routine according to the present invention;

FIG. 9 shows an exemplary death claims processing routine according to the present invention;

- FIG. 10 shows an exemplary maturity processing routine according to the present invention;
- FIGS. 11-16 show exemplary screens for use in performing basic policy maintenance;
  - FIGS. 17-22 show exemplary screens for use in performing premium billing and payment processing;
    - FIG. 23 shows an exemplary screen for performing waiver processing;
    - FIGS. 24-28 show exemplary screens for performing loan processing;
  - FIGS. 29-33 show exemplary screens for performing cash surrender value (CSV) processing;
  - FIGS. 34-36 show exemplary screens for performing extended term insurance processing;
- FIGS. 37-41 show exemplary screens for displaying and modifying system parameters;
  - FIG. 42 shows an exemplary screen for generating an actuarial extract file; and
  - FIG. 43 shows an exemplary screen for examining an error log.

# DETAILED DESCRIPTION OF THE INVENTION

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The system and method described herein are applicable to the administration of insurance policies generally characterized by relatively frequent payments (e.g., weekly, monthly, or some other interval) and relatively low benefits. This type of insurance is commonly referred to as "industrial insurance," "monthly debit ordinary (MDO) insurance," "weekly premium (WP) insurance," or "home service distribution insurance." Traditionally, these programs were also characterized by their use of an agent to

personally visit the policyholders on a periodic basis to collect the premiums. In current manifestations, however, the policyholders may often forward their payments to the insurance provider using other arrangements (such as by mail, or by authorizing the automatic withdrawal of funds from banks accounts). A "premium" refers to the amount which must be contractually paid on a periodic basis to keep the policy in force.

However, the system and method described herein are also applicable to other types of financial programs. For instance, the system and method are applicable to the administration of other types of insurance policies, as well as the administration of various loan programs, etc.

By way of overview, section No. 1 of this application describes the architecture of an exemplary system for implementing the present invention. Section No. 2 describes various process flows used in the present invention, along with associated batch processing, screen presentations, etc. And section No. 3 provides a series of tables describing a specific exemplary implementation of the present invention. Section No. 3 also includes a glossary (in Table VI) for defining selected terms used in section Nos. 1 and 2.

#### 1. System Architecture (FIGS. 1-3)

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FIG. 1 shows an overview of a system 100 for implementing the present invention. The system 100 features an insurance processing system 102 which administers the insurance program (and which is described in further detail in connection with FIG. 2). The insurance processing system 102 is directly connected to one or more workstations (such as workstations 104, 106 and 108) (which are described in further detail in connection with FIG. 3). One or more other workstations (such as workstations 118 and 120) may be connected to the insurance processing system 102 via a local network 116, such as a corporate intranet or like network. The workstations serve as "portals" for interacting with the insurance processing system 102. Namely, users may use the workstations to enter information into the insurance processing system 102 and to retrieve information from the insurance processing system 102.

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The insurance processing system 102 may represent a "replacement" of a prior system (or systems) 114, now retired. The previous system(s) 114 represent technical platforms (and associated databases) that were previously used by an organization to administer the insurance program (e.g., before introduction of the insurance processing system 102). For instance, the previous system(s) 114 may represent one or more mainframe systems that were used to implement the insurance program. On the other hand, the insurance processing system 102 may represent a server-type technical platform (e.g., in the context of a client-server architecture), or some other updated architecture.

The insurance processing system 102 includes a data storage 109 that contains information pertaining to insurance policies using multiple tables. Such information may include policy data that was extracted from the retired system(s) 114 on a specified conversion date (or dates) and converted to a format that is compatible with the insurance processing system 102 (and may thus be referred to as "converted data"). For example, in one embodiment, only policies that retained value as of the date of conversion were converted and transferred from the previous system(s) 114 to the insurance processing system 102. That is, in one embodiment, policies that, at the time of conversion, were surrendered, matured, expired, etc., were not converted.

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That is, the insurance processing system may also include a representation (or "mirror") 115 of the retired system 114. This representation 115 may include a database that stores information that specifies the values of the data fields in all of the policies as they existed when the prior system 114 was converted to the new system (i.e., the insurance processing system 102). Such a database may reflect the data structure used in the prior system 114. In the illustrated embodiment, the representation 115 of the retired system 114 is shown as part of the data storage 109. In other embodiments, the representation 115 may be implemented as a separate storage module. In a further alternative embodiment, the representation 115 of the retired system 114 may also include interface logic for converting such data values into a format that is compatible with the insurance processing system 102.

By virtue of this unique configuration, the insurance processing system 102 may access its data storage 109 to retrieve converted records in the course of normal policy

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processing. In addition, if need be, the insurance processing system 102 may also extract data from the representation 115. For instance, the insurance processing system 102 may find it needful or useful to access information regarding policies that were not properly transferred and/or properly converted to the table structure of the new system 102 on the conversion date. Additional details regarding the interaction between the insurance processing system 102 and the "mirror" 115 of the retired system are provided in latter sections of this document.

The insurance processing system 102 may also interact with one or more financial institutions (such as financial institutions 110 and 112). For instance financial institution 110 may comprise a bank used for forwarding notifications of premium payments to the insurance processing system 102. Financial institution 112 may comprise a bank used for forwarding notifications of loan payments to the insurance processing system (in the case where a policy holder has qualified for a loan based on the cash surrender value of his or her insurance policy). These transfers may be performed via electronic communication, or by some other means. More specifically, in one embodiment, policyholders may send their payments to a bank accompanied by a billing "stub" that identifies the billing account to which the payment should be applied. The bank then notifies the insurance company (e.g., system 102) on a daily basis that the payments have been received. This processing is referred to as "batch payment processing."

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Further, the insurance processing system 102 may optionally be coupled to a wide-area network 122, such as the Internet. Such a connection may allow remote users to gain access to the insurance processing system 102, e.g., via workstations 124 and 126. Such a connection may also allow the insurance processing system 102 to interact with various remote resources, e.g., as implemented by one or more remote servers (such as server 128).

Finally, a firewall 140 may be used to protect the integrity of data maintained by the insurance processing system 102. More specifically, in one embodiment, equipment located above the firewall 140 may be associated with an organization that administers the insurance program, while equipment located below the firewall 140 may be associated with external entities that do not have a direct role in administering the program. The

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firewall 140 includes conventional functionality that prevents those outside the administering organization from gaining access to confidential information maintained by the insurance processing system 102 (and may also prevent those within the organization from inadvertently divulging confidential information to parties outside the organization).

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FIG. 2 shows an exemplary implementation of the insurance processing system 102. The insurance processing system 102 includes a debit system 202 which serves as the primary "engine" for administering the insurance program. The debit system 202 is connected to a communication interface 203, the data storage 109, and various insurance processing systems (such as systems 212, 214, 216 and 218), also referred to as "support systems." These insurance processing systems (e.g., 212, 214, 216 and 218) are "external" to the debit system 202 in the sense that they exist independently from this system (and from each other), but these systems may readily interact with the debit system 202 (and with each other). The communication interface 203 is used for interacting with the entities described above in connection with FIG. 1 (such as workstations, intranets, financial institutions, etc.). The data storage 109 stores various data tables used by the debit system in performing its ascribed insurance processing functions. For example, the data storage may store the data tables identified in Table I of section No. 3 below. The data storage 109 may also store the "mirror" 115 of the prior system 114.

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The various external systems (212, 214, 216, 218) handle different aspects of the insurance program. For instance, the death claims system 212 administers the processing and disposition of claims pertaining to the death of a policy-holder. More precisely, a "death claim" refers to a request for payment under the terms of an insurance policy upon the death of the insured.

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The matured endowment system 214 administers the processing and disposition of claims pertaining to a matured endowment. A policy "matures" when it reaches the date on which the cash value of the policy equals the face amount of the insurance paid by the policy. A "matured endowment" refers to an insurance policy where the cash value has become equal to the face amount of the insurance paid by the policy (and the insured is still living).

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The waiver of premium system 216 handles aspects of the insurance program pertaining to the waiver of premiums. "Waiver processing" refers to processing carried out when insurance premiums are waived because the insured has become disabled and the policy carries a disability rider. (A "rider" generally refers to additional or "secondary" coverage under an insurance policy). After a policy has gone into premium-waiver status (i.e., "WAIV" status), the premiums are in essence paid by the insurance company. If the insured does not remain disabled indefinitely, the policy may resume its premium-paying status.

The debit system 202 may also communicate and interact with various other systems 218, which may handle other aspects of the insurance program.

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The debit system 202 itself may include various functional modules for performing its ascribed functions. For instance, the debit system 202 includes interface logic 204 for providing various interface screens (e.g., shown in FIGS. 11-43) for use by workstation users in interacting with the insurance processing system 102. More specifically, the interface screens comprise Graphical User Interface (GUI) pages used to interact with records stored in data storage 109. The debit system 202 may also include batch processing logic 206 for performing various processing and reporting on a batch-related basis (e.g., as exemplified by the processing and reporting identified in Tables II and III below). More specifically, "batch processing" refers to the computer-processing of information extracted from a database, carried out on a relatively large scale basis. Such processing is often performed during nighttime hours when users are not online using the system 102.

The interface logic 204 and batch processing logic 206 further incorporate interaction functionality which permits different aspects of the system 102 to communicate with each other. For instance, aspects of the system 102 which handle loan processing should be able to interact with aspects of the system 102 which handle cash surrender value processing (since coverage will cease if a loan balance exceeds cash surrender value). Further, for example, aspects of the system 102 which handle premium billing and payment processing should be able to interact with aspects of the system 102 which handle policy maintenance processing (since premiums will change if coverage

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changes). Thus, in general terms, the system 102 may be said to involve the performance of plural processing routines to handle different aspects of a financial program, and the system includes functionality that facilitates interaction between these different processing routines.

Further, the debit system 202 may include other processing logic 208 for handling other aspects of its ascribed functions, such as logic for generating on-line reports, logic for interacting with the various external support system (such as the death claims system 212 and the matured endowment system 214), etc. The logic (204, 206, 208, etc.) may be implemented as machine code which performs various functions when executed by a processor. The "output" of the debit processing system includes, in part, interface screen presentations supplied via the communication interface 203, and various hard-copy reports and on-line reports (generically represented as reports 222).

The insurance processing system 102 may be implemented using various architectures. For instance, the system 102 may be implemented as a server computer unit (in the context of a client-server architectural environment). For example, the system 102 may include a server computer having conventional components (e.g., processor, memory, cache, interface means, etc.) running the Microsoft Windows<sup>TM</sup> NT<sup>TM</sup>, Windows<sup>TM</sup> 2000, Unix, Linux, Xenix, IBM AIX<sup>TM</sup>, Hewlett-Packard UX<sup>TM</sup>, Novell Netware<sup>TM</sup>, Sun Microsystems Solaris<sup>TM</sup>, OS/2<sup>TM</sup>, BeOS<sup>TM</sup>, Mach, Apache, OpenStep<sup>TM</sup> or other operating system or platform. In one embodiment, the system 102 may comprise a single computer. Alternatively, the system 102 may comprise multiple computers connected together in a distributed fashion, each of which may implement/administer a separate aspect of the insurance program. The equipment associated with the system 102 may be located at a central facility, or, in an alternative embodiment, may be distributed over plural facilities.

In one embodiment, a single computer (e.g., a single server-type computer) may implement the debit system 102 and the various related external support systems, such as the death claims system 212, the matured endowment system 214, the waiver of premium system 216, etc. In another embodiment, separate computers may be used to implement each of the above-identified systems. Those skilled in the art will appreciate that still

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other allocations of processing functionality are possible to suit the demands of different applications.

The data storage 109 may comprise a single data storage unit or multiple units connected together in a distributed fashion. The data storage 109 may be implemented using an Oracle<sup>TM</sup> relational database sold commercially by Oracle Corp. Other databases, such as Informix<sup>TM</sup>, DB2 (Database 2), Sybase or other data storage or query formats, platforms or resources such as OLAP (On Line Analytical Processing), SQL (Standard Query Language), a storage area network (SAN), Microsoft Access<sup>TM</sup> or others may also be used. The data storage 109 may physically store its data using any type of storage medium, such as any type of magnetic disk or tape, any type of optical media, etc.

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As described above, the data storage 109 includes converted data records representing information converted from the retired system 114 on the conversion date(s), as well as the representation 115 of unconverted information as maintained in the retired system 114 on the conversion date. The converted data may reflect the data structure used by the updated system 102 (e.g., as reflected by the data tables that appear in Table I of section No. 3 below), while the representation 115 may reflect the retired system's 114 data structure. The preservation of the "old" data in this fashion is an efficient and powerful mechanism for transitioning from the old system 114 to the new system 102.

FIG. 3 shows an exemplary workstation for interacting with the system 100 of FIG. 1. The workstation represents any type of general or special purpose computer comprising conventional hardware. Namely, the work station includes a processor 314 connected, via bus 310, to a Random Access Memory (RAM) 304, Read Only Memory (ROM) 306, and storage device 308 (hard drive, CDROM, optical disc, etc.). The work station further includes an interface unit 302, which, in turn, includes one or more devices 318 for inputting information (such as a keyboard, mouse-type input device, touch screen or panel, etc.), and one or more devices 316 for rendering information (including a display, printer, etc.). In one exemplary embodiment, the interface unit 302 presents the screens identified in FIGS. 11-43. The workstation also includes a communication interface device 312 (such as a modem, etc.) for interacting with external equipment (such as the insurance processing system 102, or intranet 116). The computer may

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operate using any one of a variety of operating programs, such as the Microsoft Windows<sup>TM</sup> 98 program.

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# 2. Process Flow and Related Features (FIGS. 4-43)

The process flow used in administering the insurance program may be divided into the following categories: premium billing and payment processing; loan processing; waiver of premium processing; cash surrender processing; extended value processing; death claims processing; maturity processing; and miscellaneous system-related maintenance.

By way of overview, premium billing and payment processing refers to printing and mailing billing statements, and then applying payments that are received (e.g., crediting the payments to particular policies), as well as related processing tasks. In connection therewith, a "premium" refers to a minimum amount which must be paid on a periodic basis (as contractually agreed) to keep the policy in force.

Loan processing refers to various tasks associated with establishing and administering loans, such as setting up a loan on a policy, charging annual interest, billing annual interest, recording payments against principal or interest, collection and processing of minimum interest payments (when outstanding interest becomes greater than the policy value), etc.

Waiver of premium processing pertains to various tasks performed when a waiver is placed on a policyholder's policy (such as when the policyholder becomes disabled).

Cash surrender processing pertains to various task performed in connection with the conversion of a policy to its cash value equivalent, thereby terminating the policy. More specifically, the cash value of a policy refers to the amount of money at any given time during the life of a policy that the policyholder will receive if he or she cancels the coverage and surrenders it to the insurance company. A policyholder surrenders a policy for cash by stopping premium payments on the policy, and requesting the cash surrender non-forfeiture option, thereby receiving payment of the cash value of the policy.

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Extended term insurance refers to a non-forfeiture option associated with a policy whereby the net cash value of the policy is applied as a single net premium to purchase term insurance. Extended value processing refers to various processing performed (e.g., computation of cash surrender value, etc.) in order to lapse a policy to extended term status.

Death claim processing refers to various tasks performed when a death claim is filed on a policy. A "death" claim refers to a request for payment under the terms of an insurance policy upon the death of the insured.

Maturity processing refers to various tasks performed when an insurance policy reaches maturity. A policy matures when it reaches the date on which the cash value of the policy equals the face amount of insurance paid by the policy.

The miscellaneous system-related maintenance processing refers to various administrative tasks, such as the review of error logs, generation of an extract file, etc.

#### 2(a) Premium Processing (FIG. 4)

### 2(a-i) Overview

FIG. 4 shows an exemplary routine for performing premium processing using the system 100 of FIG. 1 with respect to one exemplary customer. By way of overview, the process includes an initial step 402 of sending out information to the customer, e.g., via the mail service or via electronic transmission. This step may specifically entail sending out a Monthly Debit Ordinary (MDO) coupon book (in substep 404). This coupon book conventionally contains a series of statements that identifies the payments required for a series of premium due-date intervals (e.g., for a series of months within a year). This step may further include sending out a premium-due reminder notice for a Weekly Premium (WP) policy (in substep 408). This step may further include sending out new billing account notices (in substep 410).

In step 412, the system 100 determines whether a payment has been received by the appropriate due date. If not, in step 414, the system 100 sends out a lapse notice. In step 416, after a prescribed period of days (e.g., 90 days), the system converts the policy

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to extended term status. Alternatively, if a payment is received, the system 100 applies the payment to the respective policy account (in step 418). Then, in step 420, the system 100 performs appropriate post-payment processing. This processing may include sending out payment-received acknowledgment letters that serve also as billing statements (in substep 422), updating the policy status (in substep 424), and generating a refund if required (in substep 426).

# 2(a-ii) Premium Batch Processing and Reporting

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A subset of the batch programs and reports identified in Tables II and III (in section No. 3 below) may be used to perform selected steps in the above-described procedure. For instance, a DB\_PAYMENT\_PKG routine processes notification of payments sent by financial institutions (e.g., banks). More specifically, this routine detects matching and non-matching payments. (A matching payment refers to a payment having a dollar amount that matches a multiple of the policy's modal premium.) This routine also creates payment transactions for the matching payments and "holding" transactions for the non-matching payments, as appropriate. A holding transaction refers to a transaction that records a payment against a particular policy or account but does not "apply" the payment because the payment amount does not match a billed amount and therefore it is not yet known how the payor intended the payment to be applied. Holding transactions may be applied via online entry when the desired distribution of funds has been determined. This routine also produces a premium payments listing, generates acknowledgement letters for matching payments, and, if a payment takes a policy to its "paid up date" (i.e., captured by the PAID\_UP\_DATE variable), performs appropriate close-out processing. (The "paid up date" refers to the calendar date as of which all premium payments contractually agreed to under the terms of a policy will have been paid.)

A DB\_LAPSE\_PPAY routine identifies the premium paying policies having a PAID\_TO\_DATE field that is 90 days or more in the past, where the account status is active, "A." On finding such a billing account, this routine determines if there are still policies attached to it having a "PPAY" (premium-paying) status. (The PPAY status indictes that a policy is in force and requires additional premium payments to remain in

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force, because it is not yet paid up.) If so, this billing account and its policies are lapsed (that is, converted to extended term status).

The system may generate various premium-related batch reports, such as <u>an</u> acknowledgement letter for payment, notice of policies with lapse pending in the next calendar month, notice of lapsed MDO premium due, notice of lapsed weekly premium due, notice of policies lapsed for non-payment of premium, notice of policies not premium-paid for 31 days, notice of minimum interest due on a loan for premium paying policies, WP reminder notice, etc.

The debit system 202 also provides a number of on-line reports pertaining to the above-described processing, as identified in Table V in section No. 3 below.

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2(a-iii) Premium Processing and Related Maintenance Interface Screens

A subset of screens identified in Table IV (in section No. 3 below) may be used to facilitate performance of selected steps in the above-described procedure, and/or for performing maintenance processing associated with the policies. For instance, a Policy Data Screen (FIG. 11) pulls up policy details in response to input of a policy number. The "UPDATE INSURED NAME" and "UPDATE BENEFICIARY NAME" buttons on the screen allow the user to modify the beneficiary and insured names, respectively. Further, it is possible to enter an entirely new policy onto the system by clicking the "RESTORE LOST POLICY" button. This allows the user to add policies that were somehow lost on the old system 114 and therefore were not transferred to the new system 102. Thus, although the business entity currently using this system may no longer be selling new policies, the system 102 itself contains the functionality necessary to accept new policies in the event that it were to be used by a business entity that desired such functionality.

A Policy Coverage Screen (FIG. 12) allows the user to add or modify coverage record details for a policy in response to input of a policy number. This screen maintains base coverage plus riders and benefits. The "base" coverage of a policy refers to insurance provided to a "primary" party identified in the policy. The "benefit" associated with a policy refers to an amount of money to be contractually paid under the policy when

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certain events occur, such as the death of the insured. As noted above, a "rider" refers to additional or "secondary" coverage under an insurance policy.

A Policy Status Screen (FIG. 13) retrieves the status of a policy for various date ranges. Further, the user can query on an existing policy number to retrieve status information pertaining to the policy. Further, the "GENERATE REFUND" button allows the user to generate a premium refund for policies that have become paid up, if appropriate. The "REVERSE REFUND" button allows the user to reverse the refund operation. Generally, a refund is appropriate when excess payments have been received for some reason.

A Policy Summary Screen (FIG. 14) provides summary details for a policy in response to the input of a valid policy number. In one embodiment, this screen does not permit users to modify the data presented on the screen. Assistance personnel employed by the insurance organization may use this screen to answer questions posed by policyholders who contact the personnel via telephone, or other communication means.

A Policies Not Converted Screen (FIG. 15) presents information that represents (or "mirrors") data once stored on the prior system 114, and is now maintained in the mirror system 115. Hence, in one embodiment, this screen may be used to retrieve all of the information that was maintained on the prior system 114 at the time of conversion. This feature reduces the risk of losing data in the conversion process.

A Policy Maturity Year Screen (FIG. 16) allows a user to make corrections to maturity dates for policies. More specifically, this screen lists policies having blank (i.e., unspecified) maturity dates because the data was lost on the previous system. Users may query on "Maturity Year," "Policy Begin," or "Policy End." A user may view the maturity dates corrected by a particular user by querying on user ID and placing a check in the "Corrected Maturity Dates" checkbox. This feature is an example of the new system's facilitated ability to make corrections to data that was corrupted as maintained in the prior system 114.

A Premium Billing Account Screen (FIGS. 17 and 18) presents billing account details in response to input of Account number, Account status, Paid to Date, Discount

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Code, or Policy Type (e.g., WP, MDO). This screen enables the user to add or remove policies for a billing account. Further, this screen enables a user to add a new billing account.

A Billing Account Policy Association Screen (FIG. 19) shows the association between a premium billing account and its policies. The screen enables users to query on either policy number, billing account number, or both. Further, this screen allows users to add policies or remove policies associated with a particular billing account.

A Billing Account Transaction Screen (FIG. 20) permits the user to fetch premium billing account transaction details, as well as enter new payment transactions, by entering a valid billing account number. When the user enters the "Amount Received" and invokes the "APPLY PAYMENT" button, the system calculates the number of modal premiums paid, and adjusts the paid to date on the policy to reflect the payment.

A Policy Modal Premium Information Screen (FIG. 21) retrieves modal premiums for policies in a specified date range. The screen allows a user to query on an existing policy number and then add a new modal premium (when premiums change because of changes in coverage), as well as its start date.

A Premium Refund Information Screen (FIG. 22) allows a user to view and make premium refunds. In operation, the screen enables a user to query on a policy number and then generate a refund or reverse a refund by pressing the "GENERATE REFUND" and "REVERSE REFUND" buttons, respectively.

# 2(b) Loan Processing (FIG. 5)

2(b-i) Overview

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FIG. 5 shows an exemplary routine for performing loan processing using the system 100 of FIG. 1 with respect to one exemplary customer. By way of overview, the process includes an initial step 502 of providing a quote to the customer, and subsequently processing the customer's application for insurance coverage. Then, in step 504, the process entails sending out notices/statements to the customer, e.g., via the mail service or via electronic transmission. This step may specifically entail sending out an

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interest due billing statement (in substep 506). This step may further include sending a minimum interest due notice when total loan balance exceeds policy value (in substep 510).

In step 512, the system 100 determines whether payment has been received by the appropriate due date. In step 514, if minimum interest is due and payment has not been received after the due date, the system 100 lapses the policy. Alternatively, in step 516, if a payment is received, the system 100 automatically or manually applies the payment as principal or interest to the customer's accounts. Then, in step 518, the system 100 performs appropriate post-payment processing. This processing may include sending out payoff letters if a loan is paid off (in step 520), generating a refund if required, and crediting the account with unearned interest (since interest is charged in advance) (in substep 522).

#### 2(b-ii). Loan Batch Processing and Reporting

A subset of the batch programs and reports identified in Tables II and III (in section No. 3 below) may be used to perform selected steps in the above-described procedure. For instance, a DB\_LOAN\_PKG program processes batch payment notices coming from the bank(s) and inserts into the appropriate data storage table(s) indications of matching (payment equals interest due) and non-matching payments. More specifically, this routine: (1) sorts bank batch files containing premium and loan payments for the debit system; (2) combines the batch information with detail records; (3) detects matching and non-matching payments; (4) creates payment transaction records and updates minimum interest transaction records (MININT) to record payments as appropriate; and (5) produces a loan interest payment collection report. Non-matching payments are "held" in storage until a user determines the desired distribution of funds and applies this distribution via screen interfaces.

A DB\_NPAY\_MININT program identifies the policies with minimum interest due. More specifically, this routine looks for any MININT policy loan transaction where the ANNUAL\_INTEREST\_DUE DATE field is 30 or more days in the past and the transaction amount is equal to 0 and lapses the affected policies (policy status changes to LPNVL, i.e., lapsed with no value).

The debit system 202 also provides a number of on-line reports pertaining to the above-described processing, as identified in Table V in section No. 3 below.

#### 2(b-iii) Loan Processing and Related Maintenance Interface Screens

A subset of screens identified in Table IV (in section No. 3 below) may be used to facilitate performance of selected steps in the above-described procedure, and/or for performing maintenance processing associated with the loans. For instance, a Loan Maintenance Screen (FIGS. 24 and 25) retrieves the loan transactions for a policy in response to entry of a valid policy number. A user may view the loan details (such date due, minimum interest due, etc.) by pressing the arrow button (in lower right of screen). Further, the screen allows a user to add a new loan for the displayed policy. Further still, this screen enables a user to modify the "Payor Name" and "Address." In this particular exemplary application, a user may also modify the subscriber's Florida Name and Address (for secondary billings required by Florida statute).

A Loan Approval and Loan Quote Screen (FIGS. 26 and 27) allow the user to process new loans. More specifically, the screens enable a user to query on an existing policy number to view the loan details. In order to process a new loan, the screen prompts the user to enter a policy number, loan date, and loan amount. In one embodiment, the loan amount should be less than the cash surrender value (CSV) for the policy and processing associated with the screen determines if this is true. When the user presses the "Loan Approval" button, the system approves or denies the loan (depending on the CSV). The screen indicates whether the system has approved or denied the loan by posting a "Y" or "N" symbol in the "Approval Indicator" field.

A Policy Loan Screen (FIG. 28) retrieves loan details for the policies. This screen allows the user to modify the interest rates applicable to the loans.

# 2(c) Waiver of Premium Processing (FIG. 6)

(c-i) Overview

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FIG. 6 shows an exemplary routine for performing waiver of premium processing. By way of overview, the process includes an initial step 602 of placing a policy on waiver. As mentioned above, this action may be appropriate where the policyholder is excused from paying the premium for a prescribed amount of time, because of, for instance, his or her disability, provided that a disability rider is present on the policy. In step 604, the process includes updating the policy to waiver status (i.e., "WAIV" status). In step 606, premiums paid during the waiver period can be refunded. In step 608, the process includes updating paid-to-date information on a periodic basis. And in step 610, the process includes terminating the waiver when required.

#### 2(c-ii). Waiver of Premium Processing Batch Processing and Reporting

A subset of the batch programs and reports identified in Tables II and III (in section No. 3 below) may be used to perform selected steps in the above-described procedure. For instance, a DB\_WAIV\_PTD\_UPDATE routine updates the waived policy's paid to date. More specifically, this routine detects any policies on waiver (current policy status = "WAIV") where the PAID\_TO\_DATE field should be updated.

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Other batch reports that may be generated include notice of loan minimum interest due for policies on waiver, etc.

The debit system 202 also provides a number of on-line reports pertaining to the above-described processing, as identified in Table V in section No. 3 below.

#### 2(c-iii) Waiver of Premium Processing Interface Screens

A subset of screens identified in Table IV (in section No. 3 below) may be used to facilitate performance of selected steps in the above-described procedure. For instance, a Premium Refund Information Screen (FIG. 23) retrieves policies along with the date ranges for which the policies are in waiver state. The user can instruct the system to generate a refund for premiums paid during the waiver period by invoking the "Generate Refund" button. In response, the system generates a Refund Sequence No. for that policy. A user may instruct the system to perform a reverse refund transaction (if needed) by invoking the "Reverse Refund" button. Further, a user can terminate the waiver status for a policy by invoking the "Terminate Waiver" button. A user may also reverse such termination by pressing the "Reverse Termination" button.

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#### 2(d) Cash Surrender Processing (FIG. 7)

#### 2(d-i) Overview

FIG. 7 shows an exemplary routine for cash surrender processing using the system 100 of FIG. 1 with respect to one exemplary customer. By way of overview, the process includes an initial step 702 of providing a cash surrender value (CSV) quote to a customer. If the customer opts to "surrender" his or her policy, in step 704, the system 100 performs various CSV processing, such as calculating the CSV based on the rate book and outstanding loan amount, etc. In step 706, the system 100 updates the policy status to indicate that that policy has been "surrendered" (i.e., now has "SURR" status). And in step 708, if requested (or appropriate), the system 100 performs cash surrender reversal.

#### 2(d-ii). Cash Surrender Batch Processing and Reporting

A subset of the batch programs and reports identified in Tables II and III (in section No. 3 below) may be used to perform selected steps in the above-described procedure. For instance, a DB\_CALC\_CSV routine returns the cash surrender value (CSV) for a policy. This same CSV calculation routine is used in a DB\_LOAN\_BILLING\_MININT routine for generating loan interest billing to check if minimum interest is due and to generate a minimum interest due (MININT) transaction accordingly. This routine calculates the cash surrender value by fetching the appropriate records from the data storage 109 (such as a <u>CSV\_RATE</u> table). The function returns a value of "-1" in case of any errors that occur when running the routine.

The debit system 202 also provides a number of on-line reports pertaining to the above-described processing, as identified in Table V in section No. 3 below.

#### 2(d-iii) Cash Surrender Processing Interface Screens

A subset of screens identified in Table IV (in section No. 3 below) may be used to facilitate performance of selected steps in the above-described procedure. For instance, a Cash Surrender Quote Screen (FIG. 29) allows the user to query on a valid policy number

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to retrieve the Cash Surrender Value (CSV) details for the corresponding policy. In one embodiment, the screen does not permit users to modify any of the fields on the screen.

A Cash Surrender Processing Screen (FIG. 30) allows users to generate and reverse cash surrender value transactions for an identified policy. The screen permits the user to query on an existing policy number. By invoking the "Cash Surrender" button, the system calculates the CSV amount for the identified policy, generates a surrender transaction against the policy, and changes the policy status to "SURR." The user may reverse the surrendered policy by activating the "Reverse" button.

A CSV Rate Screen (FIG. 31) retrieves and displays a Cash Surrender Value factor table. The system calculates the CSV amount for a policy using this CSV factor table. In one embodiment, the screen does not permit the user to add or modify the rate books.

A Plan Code Screen (FIG. 32) retrieves the plan codes and the corresponding plan descriptions from the data storage 109. The screen allows a user to add or modify plan codes.

A Policy CSV Transaction Screen (FIG. 33) retrieves the CSV transaction records for a policy. The screen permits a user to add a new CSV transaction, or to modify an existing CSV transaction.

#### 2(e) Extended Value Processing (FIG. 8)

#### 20 2(e-i) Overview

FIG. 8 shows an exemplary routine for performing extended value processing. By way of overview, the process includes an initial step 802 of registering the automatic or manual lapsing of a policy. In step 804, the system 100 calculates the cash surrender value (CSV) of the policy based on the rate book and the outstanding loan amount. In step 806, the system 100 updates the policy to indicate that extended value processing has taken place. In step 808, the system 100 reverses the lapse to extended term (returns the policy to premium-paying status) if required (or appropriate).

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# 2(e-ii) Extended Value-Related Interface Screens

A subset of screens identified in Table IV (in section No. 3 below) may be used to facilitate performance of selected steps in the above-described procedure. For instance, an Extended Values Main Screen (FIG. 34) allows a user to modify the policy status to an Extended Term Insurance (ETI) status or a Reduced Paid Up (RPU) status. In operation, the user calls up a policy by entering a valid policy number. The system calculates CSV amount and the number of years of extended term or the reduced paid up coverage available from that amount. The system then adds this information to an appropriate table in the data storage 109 and changes the status of the policy to ETI or RPU depending on whether the Extended Term Insurance or Reduced Paid Up options are selected, respectively.

An Extended Term Insurance Screen (FIG. 35) retrieves the details of an Extended Term Insurance status policy when the user inputs a valid policy number of the LPNVL or ETI type. The screen permits the user to restore the status to its prior state by activating the "Reverse" button.

A Reduced Paid Up Screen (FIG. 36) retrieves details of a RPU status policy in response to the user inputting a valid policy number of the RPU status. In one embodiment, the screen permits the previous status of the policy to be restored by pressing the "Reverse" button.

An Extended Rate Screen (FIG. 37) retrieves the extended rate factor table used during conversion of a policy to ETI-status. In one embodiment, the screen does not permit the user to add or modify the rate book.

# 2(f) Death Claim Processing (FIG. 9)

#### 2(f-i) Overview

FIG. 9 shows an exemplary routine for performing death claims processing using the system 100 of FIG. 1 with respect to one exemplary customer. By way of overview, the process includes an initial step 902 of receiving a request from an external system for policy information. In response to this request, in step 904, the system 100 updates the

policy status to death claim filed (i.e., "DTHF"). In step 906, the system sends requested policy information to the claims system.

Another aspect of the death claims processing includes an initial step of receiving an indication that a death claim has been paid or cancelled (in step 908). Then, in step 910, the system updates the policy status to indicate that the death claim has been paid ("DTHP"). In the case of a cancellation of the claim, the system 100 reinstates the policy status that existed prior to cancellation.

#### 2(f-ii). Death Claim Batch Processing and Reporting

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A subset of the batch programs and reports identified in Tables II and III (in section No. 3 below) may be used to perform selected steps in the above-described procedure. For instance, a DB\_DC\_INTERFACE\_PRC routine interacts with the death claims system 212. More specifically, the death claims system 212 creates a file when a death claim is filed. On a daily basis, the debit system 202 checks for the existence of such a request for information file from the claims system 212. If present, the DB\_DC\_INTERFACE\_PRC routine reads the file and generates a return file with policy and payee information for the policies associated with death claims identified in the request file. More specifically, for each record in the request file, the debit system 202 determines what information is required by the claims system 212, and then obtains that information. For instance, if the death claim system's file indicates that a claim is being set up, then the debit system 202 calls a DB\_DC\_INT\_CLAIM\_SETUP\_PRC routine to change the existing policy status to the "DTHF" status. If the death claim system's file indicates that the death claim has been paid, then the debit system 202 calls a DB\_DC\_INT\_CLAIM\_SETTLE\_PRC routine to change the policy status from "DTHF" to "DTHP." If the death claim system's file indicates that the death claim has been deleted, then the debit system 202 calls a DB\_DC\_INT\_CLAIM\_CANCEL\_PRC routine to delete the DTHF status and restore the policy's previous status. A DB\_DC\_INTERFACE\_WRITE\_PRC routine generates the policy and payee information required by the death claims system 212. A DB DC INT REQNF PRC routine processes the death claim system's request when the identified policy is not found in the debit system 202.

The debit system 202 also provides a number of on-line reports pertaining to the above-described processing, as identified in Table V in section No. 3 below.

#### 2(g) Maturity Processing (FIG. 10)

### · 2(g-i) Overview

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FIG. 10 shows an exemplary routine for maturity-related processing using the system 100 of FIG. 1 with respect to one exemplary customer. By way of overview, the process includes a step 1002 of sending policy information every end of the month to the external matured endowments system 214 for policies maturing the subsequent month. In step 1004, the system then updates the policy status to "MATF" (maturity filed).

Another aspect of the maturing processing in FIG. 10 includes an initial step of receiving, from the matured endowments system 214, information that the maturity claim has been paid (in step 1006). Then, in step 1008, the system updates the policy status to "MATP" (maturity paid status).

#### 2(g-ii). Maturity Batch Processing and Reporting

A subset of the batch programs and reports identified in Tables II and III (in section No. 3 below) may be used to perform selected steps in the above-described procedure. For instance, a DB\_DC\_ME\_RESP\_READ\_PRC routine reads an interface file "DC\_ME\_LAPSES.TXT" generated by the matured endowments system 214 and updates the policy status for policies having settled maturity and death claim statuses.

More specifically, this routine calls a DB\_DC\_ME\_RESP\_UPD\_PRC routine to close the "MATF" status of the policies identified in the DC\_ME\_LAPSES.TXT." That is, this routine changes the "MATF" status (maturity filed) to the "MATP" status (maturity paid) in the POLICY\_STATUS table.

A DB\_LIFE\_MAEX\_PR\_PRC program identifies the policies about to mature or expire and changes the status of appropriate tables in the data storage 109 to reflect this event. More specifically, this routine examines the data storage every month end to determine policies that will mature or expire in approximately 30 days.

Other batch reports that may be generated include a report that identifies in-force policies due to mature in the next calendar month, extended term or reduced paid up policies due to expire or mature in the next calendar month, policies on waiver due to mature, etc.

The debit system 202 also provides a number of on-line reports pertaining to the above-described processing, as identified in Table V in section No. 3 below.

#### 2(h) Miscellaneous Maintenance Processing

#### 2(h-i) Overview

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The system 100 includes other routines for handling maintenance on the system 100. Such routines permit users to change system parameters, view error log information, 10 etc.

# 2(h-ii). Miscellaneous Maintenance Batch Processing and Reporting

A subset of the batch programs and reports identified in Tables II and III (in section No. 3 below) may be used to perform system-related maintenance. For instance, an DB\_ERRORS\_LOG\_PRC routine logs the errors that occur in the course of running the debit system's routines. More specifically, this routine logs details such as program ID, error line, Oracle error number, Oracle error message, etc. in an DB\_ERRORS table.

A DB GEN ACC\_EXTRACT routine generates an accounting extract file "EXTRACT.TXT" for "WP" and "MDO" debit modes when policies with loans are lapsed. More specifically, this routine fetches the records from appropriate tables in the data storage 109 and generates the extract file "EXTRACT.TXT."

A DB\_INVALID\_BILL\_ACC\_PRC routine sets ACCOUNT\_STATUS to "I" if the account is invalid. More specifically, this routine examines all records in a billing account table in the data storage 109 in which ACCOUNT\_STATUS = "A" (Active). The routine then locates any accounts that are invalid.

A DB\_MONTLY\_COUNTS routine maintains various counts and sums in a table stored in the data storage 109. In one embodiment, data from this table provides

statistical displays on an intranet website. More specifically, the first day of the next month relative to the input date is computed and the counts and sums are calculated for this first day of the next month. Some of the counts that are computed include: (1) number of premium paying life policies with MDO and WP debit modes; (2) number of premium paying health policies with MDO and WP debit modes; (3) number of life policies with MDO and WP debit modes in waiver state; (4) YTD (Year To Date) premium payment amounts for MDO and WP debit modes; (5) number of policies of extended term insurance type (ETI) with MDO and WP debit modes; (6) number of policies of reduced paid up (RPU) type with MDO and WP debit modes; (7) YTD number of policies surrendered with MDO and WP debit modes; (8) YTD number of policies with death claim processed (DTHP) having MDO and WP debit modes; (9) YTD number of policies with matured endowment processed (MATP) having MDO and WP debit modes; (10) YTD number of lapsed life policies with MDO and WP debit modes; (11) number of paid up policies with MDO and WP debit modes; (12) total annual premium for premium paying life policies with MDO and WP debit modes; and (13) total annual premium for health policies with MDO and WP debit modes.

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The debit system 202 also provides a number of on-line reports pertaining to the above-described processing, as identified in Table V in section No. 3 below.

#### 2(h-iii) Miscellaneous Maintenance Processing Interface Screen

A subset of screens identified in Table IV (in section No. 3 below) may be used to facilitate performance of selected steps in the above-described procedure. For instance, an Access Role Entry Screen (FIG. 38) permits an administrator to control access to the interface screens. More specifically, this screen pulls up a list of roles and privileges currently applicable for the screens. The screen permits the user to add, modify or delete access roles and privileges for the screens.

An Error Message Entry Screen (FIG. 39) retrieves and displays error messages (along with associated error types and error numbers) generated by the debit system's screens.

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A Report Definition Screen (FIG. 40) retrieves and displays valid report IDs and associated report names and run modes (specifying whether report is online or batch). The screen permits a user to add, modify or delete a report.

A Form Definition Screen (FIG. 41) retrieves all of the valid screen IDs and screen names in the debit system from the data storage 109. The screen permits a user to add, modify or delete ID and name information.

An Actuarial Extracts Screen (FIG. 42) allows a user to generate an actuarial extract file for use by actuarial personnel within an organization. In operation, the user enters the date and desired location of the extract file to be output. The user then creates the actuarial extracts file by pressing the "Generate Extracts" button.

An Error Log Screen (FIG. 43) retrieves the details of the errors generated during execution of the batch programs (which are trapped in the DB\_ERRORS table). The screens allows a user to query on the batch "Program name," "Run by," or "Run date" fields to retrieve the error messages.

### 3. Tables Describing Detailed Exemplary Embodiment

The following tables, in conjunction with FIGS. 11-43, identify a detailed exemplary embodiment of the present invention. Namely, Table I describes exemplary data tables that may be used to store data in the data storage 109 of the insurance processing system 102 of FIG. 2. Table II identifies exemplary batch programs for use in administering the insurance program. Table III identifies exemplary batch reports that are generated by the system of FIG. 1. Table IV, in conjunction with FIGS. 11-43, identify exemplary screens for interacting with the system 100 of FIG. 1. And Table V describes exemplary on-line reports that may be generated by the system 100 of FIG. 1.

Table I: Data Model

Table Name	Variables
BATCH_PROCESS_CONT ROL	PAYPROCESS_DONE_DATE; LOANPROCESS_DONE_DATE
BILLING_ACCOUNT	BILLING_ACCOUNT_NO; DISCOUNT_CODE; ACCOUNT_STATUS; DEBIT_MODE; PAID_TO_DATE;

Table Name	Variables
	DATE_LAST_PAID; PARTIAL_PAYMENT_BALANCE;
	NEXT_COUPON_BOOK_DATE; CHECK_DIGIT;
·	LAPSE_NOTICE_SENT; DATE_LAST_MODIFIED;
	MAINT_USER_ID
BILLING_ACCOUNT_PA	BILLING_ACCOUNT_NO; PAYOR_ID_NO;
YOR	PAYOR_TYPE; START_DATE; STOP_DATE;
	DATE_LAST_MODIFIED; MAINT_USER_ID
BILLING_ACCOUNT_TR	BILLING_ACCOUNT_NO; PAID_TO_DATE; NO OF MODAL_PREMS_PAID; DEBIT_TRANS_TYPE;
ANS	TRANSACTION_METHOD; DATE_RECEIVED;
•	AMOUNT_RECEIVED;
	PREMIUM_PAYMENT_AMOUNT;
· · · · · · · · · · · · · · · · · · ·	PARTIAL_PAYMENT; REFUND_INDICATOR;
	REFUND_SEQ_NUMBER; REMINDER_NOTICE_SENT;
	DESCRIPTION; LATE_NOTICE_SENT;
·	PAYMENT_APPLIED_FLAG; CHECK_DIGIT;
	CS_BATCH_NUMBER; CS_SEQUENCE_NUMBER;
·	ACK_LETTER_SENT; DATE_LAST_MODIFIED; MAINT_USER_ID
CSV_RATE	PLAN_CODE; WEEKLY_RATE_BOOK_CODE;
CSV_KAIE	ATTAINED_AGE; DURATION;
	CSV AMOUNT FACTOR; RATE BOOK; ISSUE_AGE;
	DATE_LAST_MODIFIED; MAINT_USER_ID
DB ACCESS DENIAL	TABLE_NAME; DENIAL_CD; FORM_NAME
DB_ACCESS_ROLE	ACCESS_CD; OBJECT_CD; OBJECT_ID; ROLE_ID;
DD_ACCESS_ROLE	MAINT_USER_ID; DATE_LAST_MODIFIED
DB DC RESPONSE PAY	COMPANY_CODE; POLICY_NUMBER;
EE	CLAIM_NUMBER; REQUEST_TYPE; REQUEST_DATE;
	PAYEE_ID; PAYEE_NAME; ADDRESS_LINE_1;
	ADDRESS_LINE_2; ADDRESS_LINE_3;
	ADDRESS_LINE_4; ADDRESS_CITY; ADDRESS_STATE_CODE; ADDRESS_ZIP_CODE;
	TAX_ID; TAX_ID_TYPE; PAYEE_TYPE;
	TAX_RELATIONSHIP; PERSON_BUSINESS
DB DC RESPONSE POLI	COMPANY_CODE; POLICY_NUMBER;
CY	CLAIM_NUMBER; REQUEST_TYPE; REQUEST_DATE;
	ORIGINAL_POLICY_STATUS; RETURN_CODE;
	INSURED_NAME_FST; INSURED_NAME_LST;
	INSURED_NAME_MID; BILLING_FORM; ISSUE_AGE;
	ISSUE_DATE; PAID_TO_DATE; MODE_OF_PAYMENT; MODAL_PREMIUM;
	LOAN_INDICATOR; SERVICE_AGENCY_CODE;
	MEDICAL; RATING_2; CHANNEL;
}	POLICY_CONTROL_STATUS;
	MORTALITY_CLASS_CODE; LAPSE_STATUS;
	LAPSE_DATE; AGENT_ACCOUNT; PENSION_CODE;
	ELEMENT_CODE_BASIC; LOB_BASIC;
	CLASS_CODE_BASIC; PLAN_CODE_BASIC;
	AMOUNT_BASIC; REINSURANCE_AMOUNT;
1	ELEMENT_CODE_ADB; LOB_ADB; CLASS_CODE_ADB; PLAN_CODE_ADB;
	AMOUNT_ADB; ELEMENT_CODE_RDR1; LOB_RDR1;
1	CLASS_CODE_RDR1; PLAN_CODE_RDR1;
	AMOUNT_RDR1; ELEMENT_CODE_RDR2;
	LOB_RDR2; CLASS_CODE_RDR2;

Table Name	Variables
	PLAN_CODE_RDR2;
	AMOUNT_RDR2; ELEMENT_CODE_RDR3;
	LOB_RDR3; CLASS_CODE_RDR3;
	PLAN_CODE_RDR3; AMOUNT_RDR3;
	ELEMENT_CODE_RDR4; LOB_RDR4;
·	CLASS_CODE_RDR4; PLAN_CODE_RDR4;
	AMOUNT_RDR4; OWNERSHIP_CODE; COST_BASIS;
	POLICY_LOAN_AMOUNT; POLICY_LOAN_DATE;
,	INTEREST_ON_POLICY_LOAN;
	MOUNT_REFUNDED; PREMIUM_REFUND_DATE;
	POLICY_REINSURED_FLAG; OWNER; ASSIGNEE;
	DATE_ASSIGNED; AMOUNT_AVAILABLE;
	AGENT_CODE; AGENT_NAME; INSURED_SSN;
•	NUMBER_OF_PAYEES;
•	BENEFIT_TERMINATION_DATE; MATURITY_DATE;
	EXPIRY_DATE; FACE_AMOUNT_AT_ISSUE;
	ANNUAL_PREMIUM; DATE_OF_BIRTH; INSURED_TITLE; ANNUITY_FLAG; ISSUE_STATE;
<i>.</i>	TYPE_OF_INTEREST; REFUND_START_DATE;
	RELATION
DR EDDORC	PROGRAM_ID; PROGRAM_RUN_USER_ID;
DB_ERRORS	PROGRAM_RUN_DATE; ERROR_LINE_SEQUENCE;
	ORACLE_ERROR_NUM; ORACLE_ERROR_MSG;
	ERROR_DESC; SEVERITY_FLAG
DB_ERROR_MESSAGE_D	ERROR_TYPE; ERROR_NUM; ERROR_MESSAGE;
EF	MAINT_USER_ID; DATE_LAST_MODIFIED;
EF	USR_CODE
N.	
DB ME RESPONSE_PAY	PAYEE_NAME; TAX_ID_TYPE; TAX_ID;
<del>-</del> -	ADDRESS_LINE_1; ADDRESS_LINE_2;
EE .	ADDRESS_LINE_3; ADDRESS_LINE_4;
	ADDRESS_CITY; ADDRESS_ZIP_CODE;
	ADDRESS_STATE_CODE; COMPANY_CODE;
	POLICY_NUMBER; REQUEST_TYPE
DB ME RESPONSE_POLI	COMPANY_CODE; POLICY_NUMBER;
CY	REQUEST_TYPE; INSURED_NAME; INSURED_SEX;
• •	
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE;
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE; BILLING_FORM; AGENT_ACCOUNT;
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE; BILLING_FORM; AGENT_ACCOUNT; MATURITY_DATE; PAID_TO_DATE; PAID_UP_DATE;
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE; BILLING_FORM; AGENT_ACCOUNT; MATURITY_DATE; PAID_TO_DATE; PAID_UP_DATE; POLICY_CONTROL_STATUS; LOAN_INDICATOR;
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE; BILLING_FORM; AGENT_ACCOUNT; MATURITY_DATE; PAID_TO_DATE; PAID_UP_DATE; POLICY_CONTROL_STATUS; LOAN_INDICATOR; SUSPEND_INDICATOR; MODE_OF_PAYMENT;
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE; BILLING_FORM; AGENT_ACCOUNT; MATURITY_DATE; PAID_TO_DATE; PAID_UP_DATE; POLICY_CONTROL_STATUS; LOAN_INDICATOR; SUSPEND_INDICATOR; MODE_OF_PAYMENT; SERVICE_AGENCY_CODE; MODAL_PREMIUM;
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE; BILLING_FORM; AGENT_ACCOUNT; MATURITY_DATE; PAID_TO_DATE; PAID_UP_DATE; POLICY_CONTROL_STATUS; LOAN_INDICATOR; SUSPEND_INDICATOR; MODE_OF_PAYMENT; SERVICE_AGENCY_CODE; MODAL_PREMIUM; CASE1; CHANNEL; LOB_BASIC;
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE; BILLING_FORM; AGENT_ACCOUNT; MATURITY_DATE; PAID_TO_DATE; PAID_UP_DATE; POLICY_CONTROL_STATUS; LOAN_INDICATOR; SUSPEND_INDICATOR; MODE_OF_PAYMENT; SERVICE_AGENCY_CODE; MODAL_PREMIUM; CASE1; CHANNEL; LOB_BASIC; CLASS_CODE_BASIC; PLAN_CODE_BASIC
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE; BILLING_FORM; AGENT_ACCOUNT; MATURITY_DATE; PAID_TO_DATE; PAID_UP_DATE; POLICY_CONTROL_STATUS; LOAN_INDICATOR; SUSPEND_INDICATOR; MODE_OF_PAYMENT; SERVICE_AGENCY_CODE; MODAL_PREMIUM; CASE1; CHANNEL; LOB_BASIC; CLASS_CODE_BASIC; PLAN_CODE_BASIC AMOUNT_BASIC; POLICY_LOAN_AMOUNT;
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE; BILLING_FORM; AGENT_ACCOUNT; MATURITY_DATE; PAID_TO_DATE; PAID_UP_DATE; POLICY_CONTROL_STATUS; LOAN_INDICATOR; SUSPEND_INDICATOR; MODE_OF_PAYMENT; SERVICE_AGENCY_CODE; MODAL_PREMIUM; CASE1; CHANNEL; LOB_BASIC; CLASS_CODE_BASIC; PLAN_CODE_BASIC AMOUNT_BASIC; POLICY_LOAN_AMOUNT; PLAN_SHORT_NAME; POLICY_LOAN_DATE;
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE; BILLING_FORM; AGENT_ACCOUNT; MATURITY_DATE; PAID_TO_DATE; PAID_UP_DATE; POLICY_CONTROL_STATUS; LOAN_INDICATOR; SUSPEND_INDICATOR; MODE_OF_PAYMENT; SERVICE_AGENCY_CODE; MODAL_PREMIUM; CASE1; CHANNEL; LOB_BASIC; CLASS_CODE_BASIC; PLAN_CODE_BASIC AMOUNT_BASIC; POLICY_LOAN_AMOUNT; PLAN_SHORT_NAME; POLICY_LOAN_DATE; LRP_DATE; LAPSE_CAUSE;
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE; BILLING_FORM; AGENT_ACCOUNT; MATURITY_DATE; PAID_TO_DATE; PAID_UP_DATE; POLICY_CONTROL_STATUS; LOAN_INDICATOR; SUSPEND_INDICATOR; MODE_OF_PAYMENT; SERVICE_AGENCY_CODE; MODAL_PREMIUM; CASE1; CHANNEL; LOB_BASIC; CLASS_CODE_BASIC; PLAN_CODE_BASIC AMOUNT_BASIC; POLICY_LOAN_AMOUNT; PLAN_SHORT_NAME; POLICY_LOAN_DATE; LRP_DATE; LAPSE_CAUSE; AMOUNT_OF_INSURANCE; YEAR_OF_CHANGE;
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE; BILLING_FORM; AGENT_ACCOUNT; MATURITY_DATE; PAID_TO_DATE; PAID_UP_DATE; POLICY_CONTROL_STATUS; LOAN_INDICATOR; SUSPEND_INDICATOR; MODE_OF_PAYMENT; SERVICE_AGENCY_CODE; MODAL_PREMIUM; CASE1; CHANNEL; LOB_BASIC; CLASS_CODE_BASIC; PLAN_CODE_BASIC AMOUNT_BASIC; POLICY_LOAN_AMOUNT; PLAN_SHORT_NAME; POLICY_LOAN_DATE; LRP_DATE; LAPSE_CAUSE; AMOUNT_OF_INSURANCE; YEAR_OF_CHANGE; DISABILITY_PREMIUM; ADB_PREMIUM;
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE; BILLING_FORM; AGENT_ACCOUNT; MATURITY_DATE; PAID_TO_DATE; PAID_UP_DATE; POLICY_CONTROL_STATUS; LOAN_INDICATOR; SUSPEND_INDICATOR; MODE_OF_PAYMENT; SERVICE_AGENCY_CODE; MODAL_PREMIUM; CASE1; CHANNEL; LOB_BASIC; CLASS_CODE_BASIC; PLAN_CODE_BASIC AMOUNT_BASIC; POLICY_LOAN_AMOUNT; PLAN_SHORT_NAME; POLICY_LOAN_DATE; LRP_DATE; LAPSE_CAUSE; AMOUNT_OF_INSURANCE; YEAR_OF_CHANGE; DISABILITY_PREMIUM; ADB_PREMIUM; RIDER_PREMIUM; RIDER_AMOUNT;
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE; BILLING_FORM; AGENT_ACCOUNT; MATURITY_DATE; PAID_TO_DATE; PAID_UP_DATE; POLICY_CONTROL_STATUS; LOAN_INDICATOR; SUSPEND_INDICATOR; MODE_OF_PAYMENT; SERVICE_AGENCY_CODE; MODAL_PREMIUM; CASE1; CHANNEL; LOB_BASIC; CLASS_CODE_BASIC; PLAN_CODE_BASIC AMOUNT_BASIC; POLICY_LOAN_AMOUNT; PLAN_SHORT_NAME; POLICY_LOAN_DATE; LRP_DATE; LAPSE_CAUSE; AMOUNT_OF_INSURANCE; YEAR_OF_CHANGE; DISABILITY_PREMIUM; ADB_PREMIUM; RIDER_PREMIUM; RIDER_AMOUNT; INTEREST_RATE; INTEREST_PAID_TO_YEAR;
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE; BILLING_FORM; AGENT_ACCOUNT; MATURITY_DATE; PAID_TO_DATE; PAID_UP_DATE; POLICY_CONTROL_STATUS; LOAN_INDICATOR; SUSPEND_INDICATOR; MODE_OF_PAYMENT; SERVICE_AGENCY_CODE; MODAL_PREMIUM; CASE1; CHANNEL; LOB_BASIC; CLASS_CODE_BASIC; PLAN_CODE_BASIC AMOUNT_BASIC; POLICY_LOAN_AMOUNT; PLAN_SHORT_NAME; POLICY_LOAN_DATE; LRP_DATE; LAPSE_CAUSE; AMOUNT_OF_INSURANCE; YEAR_OF_CHANGE; DISABILITY_PREMIUM; ADB_PREMIUM; RIDER_PREMIUM; RIDER_AMOUNT; INTEREST_RATE; INTEREST_PAID_TO_YEAR; RIDER_UNITS; LC_ENDOW; ISSUE_DATE
DB_POLICY	ISSUE_AGE; ISSUE_STATE; PENSION_CODE; BILLING_FORM; AGENT_ACCOUNT; MATURITY_DATE; PAID_TO_DATE; PAID_UP_DATE; POLICY_CONTROL_STATUS; LOAN_INDICATOR; SUSPEND_INDICATOR; MODE_OF_PAYMENT; SERVICE_AGENCY_CODE; MODAL_PREMIUM; CASE1; CHANNEL; LOB_BASIC; CLASS_CODE_BASIC; PLAN_CODE_BASIC AMOUNT_BASIC; POLICY_LOAN_AMOUNT; PLAN_SHORT_NAME; POLICY_LOAN_DATE; LRP_DATE; LAPSE_CAUSE; AMOUNT_OF_INSURANCE; YEAR_OF_CHANGE; DISABILITY_PREMIUM; ADB_PREMIUM; RIDER_PREMIUM; RIDER_AMOUNT; INTEREST_RATE; INTEREST_PAID_TO_YEAR;

Table Name	Variables
	MATURITY_REPORTED; POLICY_TYPE;
	DEBIT_MODE; INDUSTRIAL_FLAG;
	YEAR_OF_CHANGE_DATE; INSURED_CIN;
	VALUATION_CLASS; AGENT_CODE;
ì	BENEFICIARY_CIN; APPLICANT_AGE_RANGE;
	EXPIRY_YEAR; MATURITY_EXPIRY_YY;
	CONVERSION_STATUS; DATE_LAST_MODIFIED; MAINT_USER_ID; MATURITY_EXPIRY_YYYY
DR DEDODE DEE	REPORT_ID; DEBIT_REPORT_NAME;
DB_REPORT_DEF	MAINT_USER_ID; DATE_LAST_MODIFIED;
	RUN MODE
DB_SCREEN_DEF	SCREEN_ID; SCREEN_NAME; MAINT_USER_ID;
DD_SCREEN_DEF	DATE_LAST_MODIFIED
DB_STATE_CODES	STATE_CODE; STATE_DESC; MAINT_USER_ID;
DD_STATE_CODES	DATE_LAST_MODIFIED
DB_VERSION	VERSION_NUMBER
DEBIT CLIENT	CLIENT_ID_NUMBER; NAME_LST; NAME_FST;
DEDIT_CERMIT	NAME_MID; TAX_ID; DATE_LAST_MODIFIED;
	MAINT_USER_ID; ADDRESS_LINE_1;
	ADDRESS_LINE_2; ADDRESS_LINE_3;
	ADDRESS_LINE_4; ADDRESS_CITY;
	ADDRESS_STATE_CODE; ADDRESS_ZIP_CODE
EXT_RATE	WEEKLY_RATE_BOOK_CODE; RATE_BOOK; PLAN_CODE; DURATION; COST_PERIOD;
	ADD_DAYS; PURE_ENDOW_FACTOR;
	PAID_UP_POLICY_AMT; ATTAINED_AGE;
	DATE_LAST_MODIFIED; MAINT_USER_ID
HEALTH POLICY	POLICY_NUMBER; INSURED_YOB; SPOUSE_YOB;
	SPOUSE_AGE; HIR_CODE; WAIVER_1; WAIVER_II;
	HLTH_RATE_BOOK_CODE;
,	MARITIAL_STATUS; CHANGE_IN_PREMIUM;
	DATE_CHANGED; MO_YR_OLDEST; V_INCREASE; DATE_LAST_MODIFIED; MAINT_USER_ID
TOAN APPROXIAT	POLICY_NUMBER; LOAN_AMOUNT_REQUESTED;
LOAN_APPROVAL	DATE OF LOAN; EXISTING_LOAN_AMOUNT;
	INTEREST_RATE; LOAN_TYPE;
	CASH_SURRENDER_VALUE; ANNUAL_INTEREST;
	APPROVAL_INDICATOR;
	REASON_FOR_DISAPPROVAL;
	DATE_LAST_MODIFIED; MAINT_USER_ID POLICY_NUMBER; PAYOR_ID_NO; PAYOR_TYPE;
LOAN_BILLING	START_DATE; STOP_DATE; DATE_LAST_MODIFIED;
1	MAINT_USER_ID
MDO_COUPON	BILLING_ACCOUNT_NO; BILLING_AMOUNT
MDO_COUPON_BOOK_	POLICY_NUMBER;
· —	1 ODIO I_MOMBAN
REQUEST	DE AN CODE ME DI AN CODE.
I DI ANI C'INDR'S	
PLAN_CODES	PLAN_CODE; WP_PLAN_CODE;
LDWI-CODE2	PLAN_CODE_DESC_SHORT; PLAN_CODE_DESC;
LDWI-CODES	PLAN_CODE_DESC_SHORT; PLAN_CODE_DESC; PLAN_CODE_TYPE; INDUSTRIAL_FLAG; TERM_IND;
LDWI-CODES	PLAN_CODE_DESC_SHORT; PLAN_CODE_DESC; PLAN_CODE_TYPE; INDUSTRIAL_FLAG; TERM_IND; MATURITY_AGE; PAID_UP_AGE; MAINT_USER_ID;
LDAN_CODES	PLAN_CODE_DESC_SHORT; PLAN_CODE_DESC; PLAN_CODE_TYPE; INDUSTRIAL_FLAG; TERM_IND; MATURITY_AGE; PAID_UP_AGE; MAINT_USER_ID; DATE_LAST_MODIFIED; INIT_AGE_LIMIT; INIT_VPU; ULTIMATE_VPU
POLICIES_NOT_CONVE	PLAN_CODE_DESC_SHORT; PLAN_CODE_DESC; PLAN_CODE_TYPE; INDUSTRIAL_FLAG; TERM_IND; MATURITY_AGE; PAID_UP_AGE; MAINT_USER_ID; DATE_LAST_MODIFIED; INIT_AGE_LIMIT;

Table Name	Variables
RTED	ISSUE_DATE_CHAR; ISSUE_AGE;
	MODAL_PREMIUM; LRP; AGENT_CODE;
	REPL_PREM; REPL_WEEKS; DLP_MLP;
	LAPSE_CAUSE; AMOUNT_OF_INSURANCE; YOC;
	DISABILITY_PREM; ADB_PREM; RIDER_PREM;
	RIDER_PLAN_CODE; INSURED_SEX; MEDICAL;
	APPLICANT_AGE_RANGE; WP_ADB_RATING;
	MDO_VALUATION_CLASS; INTEREST_RATE;
	INTEREST_YEAR; LOAN_AMOUNT;
	MDO_VAL_RATING; TERMINATION_CODE;
	TRANSACTION_CODE; OYB_INSURED;
	EXPIRY_OR_MATURITY; NF_KIND;
	AMOUNT_EXTENDED; YEARS_EXTENDED;
	DAYS_EXTENDED; PURE_ENDOW_AMT; PAID_UP_AMT; FILE_OF_ORIGIN; OPAI_PREMIUM;
	RIDER_UNITS; MAINT_USER_ID;
	DATE_LAST_MODIFIED
POLICY COVEDACE	POLICY_NUMBER; PLAN_CODE;
POLICY_COVERAGE	COVERAGE SEQUENCE; INSURED_LEVEL;
	SEX RELATIONSHIP; MODAL_PREMIUM;
	AMOUNT OF INSURANCE;
	ULTIMATE_FACE_AMOUNT; UNITS; ISSUE_AGE;
	INSURED_NO_OF_CHILDREN; INSURED_YOB;
	RATE_BOOK; RATING; PREMIUM_REMOVED;
	DESCRIPTION; MDO_VALUATION_CLASS;
	START_DATE; STOP_DATE; MAINT_USER_ID;
	DATE_LAST_MODIFIED
POLICY_CSV_TRANSAC	POLICY_NUMBER; CSV_EFFECTIVE_DATE;
TION	DATE_LAST_PAID; CSV_TRANS_TYPE;
	LOAN_BALANCE_ASOF_DLP; INTEREST_REF_DED;
	PREMIUM_REF_DED; REVERSAL_ENTRY_DATE;
	SURRENDER_AMOUNT; EXT_TERM_YEAR; EXT_TERM_DAYS; PURE_ENDOWMENT;
	REDUCED_PAID_UP_AMT; LAPSE_REPORTED;
	DATE_LAST_MODIFIED;MAINT_USER_ID
POLICY LOAN	POLICY_NUMBER; INTEREST_RATE;
POLICY_LOAN	INTEREST_NEXT_DUE_DATE;
	INTEREST_LAST_PAID_DATE;
	INTEREST_LAST_ADDED_DATE;
	DATE_LAST_MODIFIED; MAINT_USER_ID;
POLICY_LOAN_	POLICY_NUMBER; DEBIT_TRANS_TYPE;
	TRANSACTION_EFF_DATE; INTEREST_DUE_DATE;
TRANSACTION	
TRANSACTION	DATE_RECEIVED; MIN_INTEREST;
TRANSACTION	DATE_RECEIVED; MIN_INTEREST; AMOUNT_RECEIVED; TRANSACTION_AMOUNT;
TRANSACTION	DATE_RECEIVED; MIN_INTEREST; AMOUNT_RECEIVED; TRANSACTION_AMOUNT; DESCRIPTION; ADJUST_LOAN_TYPE;
TRANSACTION	DATE_RECEIVED; MIN_INTEREST; AMOUNT_RECEIVED; TRANSACTION_AMOUNT; DESCRIPTION; ADJUST_LOAN_TYPE; ACCOUNTING_GEN_DATE; REVERSAL_DATE;
TRANSACTION	DATE_RECEIVED; MIN_INTEREST; AMOUNT_RECEIVED; TRANSACTION_AMOUNT; DESCRIPTION; ADJUST_LOAN_TYPE; ACCOUNTING_GEN_DATE; REVERSAL_DATE; LAPSE_LETTER_SENT; BILLING_STATEMENT_SENT;
	DATE_RECEIVED; MIN_INTEREST; AMOUNT_RECEIVED; TRANSACTION_AMOUNT; DESCRIPTION; ADJUST_LOAN_TYPE; ACCOUNTING_GEN_DATE; REVERSAL_DATE; LAPSE_LETTER_SENT; BILLING_STATEMENT_SENT; DATE_LAST_MODIFIED; MAINT_USER_ID
POLICY_MODAL_PREMI	DATE_RECEIVED; MIN_INTEREST; AMOUNT_RECEIVED; TRANSACTION_AMOUNT; DESCRIPTION; ADJUST_LOAN_TYPE; ACCOUNTING_GEN_DATE; REVERSAL_DATE; LAPSE_LETTER_SENT; BILLING_STATEMENT_SENT; DATE_LAST_MODIFIED; MAINT_USER_ID POLICY_NUMBER; MODAL_PREMIUM;
	DATE_RECEIVED; MIN_INTEREST; AMOUNT_RECEIVED; TRANSACTION_AMOUNT; DESCRIPTION; ADJUST_LOAN_TYPE; ACCOUNTING_GEN_DATE; REVERSAL_DATE; LAPSE_LETTER_SENT; BILLING_STATEMENT_SENT; DATE_LAST_MODIFIED; MAINT_USER_ID POLICY_NUMBER; MODAL_PREMIUM; START_DATE; STOP_DATE; REFUND_SEQ_NUMBER;
POLICY_MODAL_PREMI	DATE_RECEIVED; MIN_INTEREST; AMOUNT_RECEIVED; TRANSACTION_AMOUNT; DESCRIPTION; ADJUST_LOAN_TYPE; ACCOUNTING_GEN_DATE; REVERSAL_DATE; LAPSE_LETTER_SENT; BILLING_STATEMENT_SENT; DATE_LAST_MODIFIED; MAINT_USER_ID  POLICY_NUMBER; MODAL_PREMIUM; START_DATE; STOP_DATE; REFUND_SEQ_NUMBER; COVERAGE_SEQUENCE; DATE_LAST_MODIFIED;
POLICY_MODAL_PREMI	DATE_RECEIVED; MIN_INTEREST; AMOUNT_RECEIVED; TRANSACTION_AMOUNT; DESCRIPTION; ADJUST_LOAN_TYPE; ACCOUNTING_GEN_DATE; REVERSAL_DATE; LAPSE_LETTER_SENT; BILLING_STATEMENT_SENT; DATE_LAST_MODIFIED; MAINT_USER_ID  POLICY_NUMBER; MODAL_PREMIUM; START_DATE; STOP_DATE; REFUND_SEQ_NUMBER; COVERAGE_SEQUENCE; DATE_LAST_MODIFIED; MAINT_USER_ID; PAID_TO_DATE_AT_CHANGE;
POLICY_MODAL_PREMI UM	DATE_RECEIVED; MIN_INTEREST; AMOUNT_RECEIVED; TRANSACTION_AMOUNT; DESCRIPTION; ADJUST_LOAN_TYPE; ACCOUNTING_GEN_DATE; REVERSAL_DATE; LAPSE_LETTER_SENT; BILLING_STATEMENT_SENT; DATE_LAST_MODIFIED; MAINT_USER_ID  POLICY_NUMBER; MODAL_PREMIUM; START_DATE; STOP_DATE; REFUND_SEQ_NUMBER; COVERAGE_SEQUENCE; DATE_LAST_MODIFIED; MAINT_USER_ID; PAID_TO_DATE_AT_CHANGE;  POLICY_NUMBER; BILLING_ACCOUNT_NO;
POLICY_MODAL_PREMI	DATE_RECEIVED; MIN_INTEREST; AMOUNT_RECEIVED; TRANSACTION_AMOUNT; DESCRIPTION; ADJUST_LOAN_TYPE; ACCOUNTING_GEN_DATE; REVERSAL_DATE; LAPSE_LETTER_SENT; BILLING_STATEMENT_SENT; DATE_LAST_MODIFIED; MAINT_USER_ID  POLICY_NUMBER; MODAL_PREMIUM; START_DATE; STOP_DATE; REFUND_SEQ_NUMBER; COVERAGE_SEQUENCE; DATE_LAST_MODIFIED; MAINT_USER_ID; PAID_TO_DATE_AT_CHANGE;

Table Name	Variables
POLICY_STATUS	POLICY_NUMBER; POLICY_STATUS; DC_INFO_SENT_DATE; START_DATE; STOP_DATE; CAUSE; REFUND_SEQ_NUMBER; PENDING_STATUS; DATE_LAST_MODIFIED; MAINT_USER_ID; PDUP_LETTER_SENT; NOTES
PREMIUM_REFUND	BILLING_ACCOUNT_NO; PAID_TO_DATE; POLICY_NUMBER; REFUND_START_DATE; AMOUNT_REFUNDED; DATE_ENTERED; REFUND_TYPE; REFUND_SEQ_NUMBER; CHECK_OR_REFUND; DATE_LAST_MODIFIED; MAINT_USER_ID; PARTIAL_PAYMENT_REFUNDED
PREMIUM_WAIVER	POLICY_NUMBER; WAIVER_START_DATE; REFUND_SEQ_NUMBER; WAIVER_STOP_DATE; DATE_LAST_MODIFIED; MAINT_USER_ID
PROJECT_INFO	PROJECT_CODE; SOLUTION; SITE; PROJECT_TYPE
PTD_DATA	BILLING_ACCOUNT_NO; POLICY_NUMBER; PAID_TO_DATE
STATE_COMP	STATE_CODE; STATE_STRING
VALID_STATUS_CODES	POLICY_STATUS; STATUS_DESCRIPTION
WP_PLAN_CODE_ CONVERSION	WP_PLAN_CODE; PLAN_CODE; INDUSTRIAL_FLAG
W_BATCH_PAYMENT	BILLING_ACCOUNT_NO; CHECK_DIGIT; DATE_PROCESSED; BATCH_NUMBER; SEQUENCE_NUMBER_5; COMPANY_CODE_2; PREMIUM_DUE; PREV_AMT_PAID; CURR_AMT_PAID
W_LOAN_PAYMENT	POLICY_NUMBER; DATE_PROCESSED; ANNUAL_INTEREST_DUE; COMPANY_CODE_2; PAID_AMOUNT; BATCH_NUMBER; SEQUENCE_NUMBER_5
COUNT_YTD	MONTH_1 <sup>ST</sup> _DAY; PPAY_LIFE_MDO; PPAY_LIFE_WP; PPAY_HEALTH_MDO; PPAY_HEALTH_WP; SURR_YTD_MDO; SURR_YTD_WP; MAT_YTD_MDO; MAT_YTD_WP; DEATH_YTD_MDO; DEATH_YTD_WP; LAPSE_YTD_LIFE_MDO; LAPSE_YTD_LIFE_WP; COUNT_ETI_MDO; COUNT_ETI_WP; COUNT_RPU_MDO; COUNT_RPU_WP; PREM_YTD_LIFE_MDO; PREM_YTD_LIFE_WP; PREM_YTD_HEALTH_MDO; PREM_YTD_HEALTH_WP; LAPSE_YTD_HEALTH_WP; WAIV_REMAINING_MDO; WAIV_REMAINING_WP; COUNT_PDUP_MDO; COUNT_PDUP_WP; MDO_ANNUALIZED_PREM; WP_ANNUALIZED_HLTH_PREM; WP_ANNUALIZED_HLTH_PREM;

Table II: Batch Programs

Routine Name	Input	Output	Description
CALC	POLICY_	None	The CALC_LOAN_BALANCE routine returns the
LOAN_	NUMBER		loan balance amount for a policy. This routine is used
BALANCE		[	in the DB_LOAN_BILLING_MININT,
DADAITCE			DB_LAPSE_PPAY_PRC, DB_NPAY_MININT_and
			DB_GEN_LOAN_TRANS_PRC routines to calculate
		ł	the principal loan balance amount for the policies.
,			This routine fetches the loan amount from the
			POLICY LOAN TRANSACTION table for a
	2011011		particular policy.
DB_CALC_	POLICY_	None	The DB_CALC_CSV routine returns the cash
CSV	NUMBER;		surrender value (CSV) for a policy. The CSV is used
	NUMBE		in the DB_LOAN_BILLING_MININT routine to
. ,	R		check if minimum interest is due and to generate a
1	DATE		MININT transaction accordingly. This routine calculates the cash surrender value by fetching the
Ì			appropriate records from the DB POLICY,
<b>]</b>			POLICY COVERAGE and CSV RATE tables. The
	Į		function returns a value of "-1" in case of any errors
	ľ		that occur when running the routine. The
			DB_ERRORS_LOG_PRC routine may be used to
ļ		l	handle the errors generated in the DB_CALC_CSV
	1		routine.
DB_CALC_	POLICY_	None	The DB_CALC_CSV_ON_DATE routine calculates
CSV_ON_	NUM-		the cash surrender value for a policy on a specific date.
DATE	BER;		The cash surrender value is used in the
DATE	DATE	1	DB_LOAN_BILLING_MININT routine to check if
			minimum interest is due and to generate an MININT
		l	transaction accordingly. This routine calculates the
		1	cash surrender value by fetching the appropriate
	1	1	records from the DB POLICY,
		}	POLICY COVERAGE and CSV RATE tables. The
ļ		į	function returns a value of "-1" in case of any errors generated. The DB_ERRORS_LOG_PRC routine
]			may be used to handle any errors generated in the
1			DB_CALC_ON_CSV function.
DB_DC_	P_	None	The DB_DC_INTERFACE_PRC routine interacts
	FILEDIR	TYONG	with the death claims system 212. More specifically,
INTERFAC	(Directory	}	the death claims system 212 creates a file when a
E_	Path)		death claim is filed. On a daily basis, the debit system
PRC			202 checks for the existence of such a file from the
		1	claims system 212. If present, the
	1	1	DB_DC_INTERFACE_PRC routine reads the file and
			generates policy and payee information for the policies
			associated with death claims identified in the file.
1		1	More specifically, for each record in the file, the debit
			system 202 determines what information is required by
			the claims system 212, and then obtains that
		1	information. For instance, if the death claim system's
1		1	file indicates that a claim is being set up, then the debit
			system 202 calls the
		]	DB_DC_INT_CLAIM_SETUP_PRC_routine (discussed below) to change the existing
		1	POLICY_STATUS to the "DTHF" status. If the death
L	1		I A DEACH _DITALOG TO THE DIFF STATUS. IT THE GEALT

Routine Name	Input	Output	Description
			claim system's file indicates that the death claim has
			been paid, then the debit system 202 call the
			DB_DC_INT_CLAIM_SETTLE_PRC routine
		1	(discussed below) to changes the POLICY_STATUS
			from "DTHF" to "DTHP." If the death claim system's
			file indicates that the death claim has been deleted,
		ŀ	then the debit system 202 calls the
			DB_DC_INT_CLAIM_CANCEL_PRC routine
		:	(discussed below) to delete the DTHF status and
·		1	restore the policy's previous status. The
			DB DC INTERFACE WRITE PRC routine actually
			generates the policy and payee information required
			by the death claims system 212. The
			DB DC INT REONF PRC routine processes the
			death claim system's request when the identified
·		<b>]</b>	policy is not found in the debit system 202; this
		l	prompts the system 202 to insert a record in the
	1		DB DC RESPONSE POLICY table with return code "9".
DP DC	DC_	0_	
DB_DC_	REQUEST	ER-	The DB_DC_INT_CLAIM_CANCEL_PRC routine cancels the "DTHF" status for the policies associated
INT_CLAIM	_LINE;	ROR_	with a death claim that has been deleted. This routine
_	POLICY_	LINE	is called from the DB DC INTERFACE PRC routine
CANCEL_P	NUMBER;	SEQ_	(discussed above). That is, the
RC	I_ERROR	PAR	DB DC INTERFACE PRC routine reviews the file
]	LINE_SEQ		generated by the death claim system's 212 for an
	_PAR		indication that a death claim has been canceled, and
			then passes the policy associated with such a claim to
			the DB_DC_INT_CLAIM_CANCEL_PRC routine.
			This routine deletes the "DTHF" status of the policy
	}	]	associated with a cancelled death claim in the
	}		POLICY STATUS table and activates the previous
	1	l	status for the policy. This routine also updates the
DD DC YV	DC		STOP_DATE field of the POLICY_STATUS table.
DB_DC_INT	DC_	O_	The DB_DC_INT_CLAIM_SETTLE_PRC routine
_	REQUEST	ER- ROR_	changes the "DTHF" (Death Claim, Filed) status to the
CLAIM_	_LINE; POLICY_	LINE	"DTHP" (Death Claim Processed) status in the
SETTLE_	NUMBER;	SEQ_	<u>POLICY STATUS</u> table for the policies associated with settled death claims. This routine is called from
PRC	I_ERROR_	PAR	the <u>DB_DC_INTERFACE_PRC</u> routine (discussed
	LINE_		above). That is, the DB_DC_INTERFACE_PRC
1	SEQ_	1	reviews the file generated by the death claim system
	PAR		212 for an indication that a death claim has been
	[	[	canceled, and then passes such a claim to the
			DB_DC_INT_CLAIM_SETTLE_PRC routine. This
		1	routine changes the status in the POLICY_STATUS
			table from "DTHF" to "DTHP." This routine also
		1	updates the STOP_DATE field to the current date - 1.
	1	].	This routine also checks for any PAYPRM
	<b>,</b>		transactions (premium payments) received for the
	1		policy after the death claim has been filed. The system
	l		refunds all such transactions by inserting an
DD DC IND	DC -	<del> </del>	appropriate record in the PREMIUM REFUND table.
DB_DC_INT	DC_ REQUEST	O_ ER-	The DB_DC_INT_CLAIM_SETUP_PRC routine
-	LINE;	1	fetches the details of policies associated with a new claim setup and inserts appropriate records in the
L	LTINE;	ROR_	ciaum setup and inserts appropriate records in the

Routine Name	Input	Output	Description
	POLICY_	LINE_	
CLAIM_	NUMBER;	SEQ_	DB_DC_RESPONSE_POLICY table. More specifically, the following tables are queried to fetch
SETUP_PRC		PAR	the policy details: DEBIT CLIENT;
,	I_ERROR_ LINE_SEQ	PAR	POLICY MODAL PREMIUM;
	_PAR		POLICY COVERAGE; POLICY STATUS;
	_rak		DB POLICY; POLICY_LOAN_TRANSACTION;
			and POLICY COVERAGE. This routine further
			changes the status of the policies to "DTHF." And if
[			the current POLICY_STATUS is "DTHF," then this
			routine updates the DC_INFO_SENT_DATE field of
			the POLICY_COVERAGE table. This routine is
			called from the DB DC INTERFACE PRC routine,
}			which examines the file generated by the death claim
			system 212 for an indication of new claim setups.
DB_DC_INT	DC_	0_	The DB_DC_INT_REGNF_PRC routine inserts a
}	REQUEST	ER-	record into the DB_DC_RESPONSE_POLICY table
REONF_PR	_LINE;	ROR_	when the requested policy details are not found in the
C	I_ERROR_	LINE_	debit system 202. This routine is called from the
	LINE_SEQ	SEQ_	DB DC INTERFACE PRC routine. That is, the
	_PAR	PAR	DB_DC_INTERFACE_PRC routine examines the file
	ľ	ĺ	generated by the death claim system 212. If the file identifies policy information that is not found in the
	1	ļ	debit system 202, then the
			DB_DC_INT_REGNF_PRC routine inserts a record
			in the DB_DC_RESPONSE_POLICY table with
			return code "9."
DB_DC_	P_	None	The DB_DC_INTERFACE_WRITE_PRC routine
INTERFAC	FILEDIR		generates the policy and payee flat files, namely
E_WRITE	(Directory		DC_DEBIT_POLICY.TXT and
PRC	Path)	·	DC_DEBIT_PAYEE.TXT, respectively, for the death
_PRC			claims system 212. More specifically, this routine
		ļ	collects the requested policy and payee information
			from the DB_DC_RESPONSE_POLICY and
	j		DB DC RESPONSE PAYEE tables, respectively, and then generates the DC_DEBIT_POLICY.TXT and
			DC_DEBIT_PAYEE.TXT flat files which are sent to
			the death claims system 212. This procedure is called
	}		from the DB_DC_INTERFACE_PRC routine.
DB_DC_ME	P_	None	The DB_DC_ME_RESP_READ_PRC reads the
	FILEDIR		interface file "DC_ME_LAPSES.TXT" generated by
RESP_REA	(Directory		the matured endowments system 214 and updates the
B .	Path)		POLICY_STATUS table for policies having settled
D_			maturity and lapsed death claims statuses. This
PRC	}		routine calls the DB DC ME RESP UPD PRC
			routine to close the "MATF" status of the policies
			identified in the DC_ME_LAPSES.TXT". That is, this routine changes the "MATF" status (maturity
			filed) to the "MATP" status (maturity paid) in the
1	1		POLICY STATUS table.
DB_DC_ME	DC	0_	The DB_DC_ME_RESP_UPD_PRC routine closes
NO DC WIF	REQUEST	ER-	the "MATF" status and inserts the "MATP" status in
DECD TIPE	_LINE;	ROR_	the POLICY STATUS table for policies having
RESP_UPD_	POLICY_	LINE_	settled maturity and lapsed death claims. But the
PRC	NUMBER;	SEQ_	"MATP" status is inserted for a policy only if the
	I_ERROR_	PAR	previous status is "MATF." This routine also updates
L	LINE_SEQ	L	the STOP_DATE field of the POLICY_STATUS

Routine Name	Input	Output	Description
	_PAR		table. This routine is called from the
			DB DC ME RESP READ PRC routine (discussed
			above).
DB_ERROR	None	None	The DB_ERRORS_LOG_PRC routine logs the errors
S_LOG_PRC			that occur in the course of running the debit system's
5_200_1110			routines. More specifically, this routine logs details
			such as program ID, error line, oracle error number,
			oracle error message, etc. in the <u>DB_ERRORS</u> table.
DB_GEN_ACC	P_	None	The DB_GEN_ACC_EXTRACT routine generates the
_EXTRACT	FILEDIR	}	accounting extract file "EXTRACT.TXT" for "WP" and "MDO" debit modes. More specifically, this
			routine fetches the records from the DB POLICY and
			POLICY LOAN TRANSACTION tables for "WP"
			and "MDO" debit modes and generates the extract file
			"EXTRACT.TXT." The routine also updates the
•		ļ	POLICY LOAN TRANSACTION table to set the
			ACCOUNTING_GEN_DATE to the current date.
DB_	None	None	The DB_GEN_LOAN_TRAN_PRC routine creates
GEN	}		TRMNTD loan transactions for all the revived or
LOAN	1		lapsed policies. This routine fetches the records from
TRAN_PRC		ŀ	POLICY_STATUS and
Thum'_x ko	1	ì	POLICY_LOAN_TRANSACTIONS tables having STOP_DATE = START_DATE - 1 and
	ļ		POLICY_STATUS "IN" (e.g., ETI, RPU, SURR,
			LPNVL, DTH, MATP) and insert records into the
			POLICY_LOAN_TRANSACTIONS table. The
		1	DB ERRORS PRC routine handles all of the errors.
DB_HEALT	None	None	The DB_HEALTH_MATEXPR_PRC program
H MATEXP			identifies the health policies about to expire and
R_		1	changes the status in the POLICY_STATUS table.
PRC			More specifically, this routine looks for health policies
			that will expire within the coming calendar month (that is, the EXPIRY_DATE of the policy is within the
			coming calendar month). On finding such a policy,
			the routines builds a policy status record of "EXPIR"
			with START_DATE = EXPIRY_DATE + 1 day, and
ļ			builds a PPAY status record with SET_STOP on the
			EXPIRY_DATE. The DB_ERRORS_LOG_PRC
		<u> </u>	routine handles all of the errors.
DB_INVALI	None	None	The DB_INVALID_BILL_ACC_PRC routine sets
D_BILL_AC	1		ACCOUNT_STATUS to "I" if the account is invalid.
C_			More specifically, this routine examines all records in the BILLING_ACCOUNT table in which
PRC	1		ACCOUNT_STATUS = "A" (Active). The routine
	1		then locates any accounts where one of the following
	1		situations exists, and then sets the
			ACCOUNT_STATUS to "I" (Inactive or Invalid): (1)
		1	there is no current PRIMARY_PAYER attached to the
		1	account (where there normally should be a
		1	BILLING_ACCOUNT_PAYER table record
			indicating that PAYOR_TYPE = "P" and the current
		İ	system date is between START_DATE and STOP_DATE); (2) there is a policy attached to the
			account that has status "PPAY," but does not have a
		1	current POLICY_MODAL_PREMIUM table record
		1	(where there normally should be a record indicating
	J		7

Routine Name	Input	Output	Description
			that every premium paying policy has a
			POLICY_MODAL_PREMIUM record with current
			system date between START_DATE and
			STOP_DATE); (3) there are no policies currently
			attached to the account in the
	•		POLICY_PREMIUM_BILLING table (where there
			should be at least one POLICY_PREMIUM
		Ì	_BILLING table record with
			BILLING_ACCOUNT_NO equal to the billing
			account, where current system date is between
		ŀ	START_DATE and STOP_DATE. The
DD TARGE	NY.	N7.	DB_ERRORS_LOGPRC routine handles all errors.
DB_LAPSE	None	None	The DB_LAPSE_PPAY routine identifies the
_PPAY			premium paying policies having PAID_TO_DATE >
		İ	= 90 past due, where account status is "A." On finding such a billing account, this routine determines
			if there are still policies attached to it with
	}	1	POLICY_STATUS = "PPAY." If so, this billing
			account and its policies are lapsed.
DB	None	None	The DB_LIFE_MAEX_PR_PRC program identifies
LIFE MATE		Ī	the policies about to mature or expire and changes the
-			status in the POLICY_STATUS table to reflect this
XPR_PRC	1		event. More specifically, this routine examines the
		ļ	data storage every month end to determine policies
		ľ	that will mature or expire in approximately 30 days.
]			On finding a policy that will mature, the debit system:
• •	ŀ		(1) closes out the current POLICY_STATUS record
			by setting STOP_DATE equal to MATURITY_DATE
			- 1 day; (2) builds a new POLICY_STATUS record
			with status = "MAT"; (3) sets START_DATE equal to
	l	]	MATURITY_DATE; (4) sets PENDING_STATUS on the MAT_POLICY_STATUS record to "P" to indicate
1			that the debit system has not yet been notified that the
<b>{</b>			maturity has either been paid out or been escheated;
			and (5) generates an interface extract record for the
	1		claims system, which is written to a file that will be
			read by the claims system so that a claim can be set up.
			On finding a policy that will expire, the debit system:
	1	ł	(1) closes out the current POLICY_STATUS record
İ			by setting the STOP_DATE equal to EXPIRY_DATE
1			- 1 day; and (2) builds a new POLICY_STATUS
	<del> </del>	<del> </del>	record with STATUS = "EXPIR."
DB_LOAN_	None	None	The DB_LOAD_MININT program searches the
MININT	l		POLICY LOAN table looking for PPAY, WAIV,
1			PDUP or PUE policies for loans with INTEREST_
1	1		NEXT_DUE_DATE occurring within the next 6 weeks. On finding such a loan, the routine: (1)
	I		computes annual interest; (2) generates an ADDINT
	1		transaction; (3) computes CSV and determines if
			minimum interest is due (and if it is, the routine
			generates a MININT transaction); and (4) updates the
}	1		POLICY_LOAN record, setting INTEREST_NEXT_
	L		DUE_DATE to its previous value + 1 year.
DB_LOAN_	None	None	The DB_LOAN_PKG program processes the batch
PKG			payments coming from the bank(s) and inserts into the
	<u></u>	·	BILLING ACCOUNT TRANS table indications of
L	<del></del>	<u> </u>	1 Date indications of

Routine Name	Input	Output	Description
			matching and non-matching payments. More
			specifically, this routine: (1) sorts bank batch files
			containing premium and loan payments for the debit
			system; (2) combines the batch information with detail
			records; (3) detects matching and non-matching
			payments; (4) creates PAYINT records and updates
	<u> </u>		MININT records as appropriate; and (5) produces a
			loan interest collection report.
DB_ME_	date;	None	The DB_ME_INTERFACE_PRC routine creates an
INTERFAC	file DIR		interface file for the matured endowments system 214.
			The routine fetches values from the tables
E_			DEBIT_CLIENT, POLICY_LOAN,
PRC			POLICY MODAL PREMIUM,
			POLICY_COVERAGE, POLICY STATUS, and
	]		DB_POLICY, and inserts information into the
			DB_ME_RESPONSE table. It also insert records into
ļ			POLICY STATUS and
	. !	·	DB_ME_PAYEE_RESPONSE tables. It then writes
	<u> </u>	L	different values into the interface file.
DB_NPAY_	None	None	The DB_NPAY_MININT program identifies the
MININT	·		policies with minimum interest due. More
17111(11(1			specifically, this routine looks for any MININT policy
		ĺ	loan transaction where the
			ANNUAL_INTEREST_DUE DATE is 30 or more
			days overdue and the transaction amount is equal to 0.
			On finding such a transaction, the routine checks if the
1			status of the associated policy is still PUE, WAIV, or
			PDUP. It then sets the STOP_DATE of that
	1		POLICY_STATUS record to the
1	-		ANNUAL_INTEREST_DUE_DATE - 1 day.
	İ	ļ	Further, this routine builds a new POLICY_STATUS
	1		record having status = LPNVL. The routine also sets
			the START_DATE of the new record to the
			ANNUAL_INTEREST_DUE_DATE. It also creates
· ·	1		a POLICY CSV TRANSACTION record with
			EXTENDED_AMOUNT = 0 and a
	1		TRANSACTION_TYPE of "E." The routines also
	1	į	computes the CSC_AMOUNT from LOAN_BALANCE minus the
		-	MINIMUM INTEREST AMOUNT. The
			DB ERRORS LOG_PRC routine handles all errors.
DD DAWME	None	None	The DB_PAYMENT_PKG routine processes
DB_PAYME	110110	110110	notification of payments coming from the bank(s) and
NT_PKG			inserts into BILLING_ACCOUNT_TRANS table
		1	indications of matching and non-matching payments.
	1		More specifically, this routine: (1) detects matching
		1	and non-matching payments; (2) creates PAYPRM
			records and HLDPRM records as appropriate; (3)
1			produces a premium payments listing; (4) generates
			acknowledgement letters for matching payments; and
			(5) if a payment takes a policy to its
	l		PAID_UP_DATE, closes out the PPAY
			POLICY_STATUS record (e.g., sets STOP_DATE to
ŀ			PAID_UP_DATE - 1 day) and creates a PDUP
			POLICY_STATUS record (e.g., sets START_DATE
			to PAID_UPDATE). This package consists of the

Routine Name	Immy	Outros	Description
Kouune Name	Input	Output Description following routine: DB_PAYMENT_PROCESS;	
	1		DB_PROCESS_PPB; DB_MATCHING_CHECK;
			DB_PROCESS_MISMATCH;
			DB_PROCESS_MATCHING; and
		·	DB_UPDATE_POLICY_STATUS. The
			DB_ERRORS_LOG_PRC_routine handles all errors.
DB_PAYME	None	None	The DB_PAYMENT_PROCESS routine performs the
NT_PROCE			initial checking for the validity of the billing record.
1 -			Checking is performed by comparing a check digit
SS			sent by the bank(s) with a check digit maintained by
			the debit system. Mismatches are logged in the error
			file. A billing account is valid if it exists in the
			BILLING_ACCOUNT table, and is indicated as
			having an active, "A," status.
DB_PROCE	None	None	This routine retrieves valid policy numbers to be
SS_PPB			included in the total modal premium.
DB_	None	None	This routine checks whether the total amount received
MATCHING		•	is a whole multiple of the total modal premium
			amount.
CHECK			
DB_PROCE	None	None	This routine processes non-matching records.
SS MISMAT			
CH			
DB_PROCE	None	None	This routine performs the main processing for
SS_MATCHI			matching records.
NG			
DB UPDAT	None	None	The DB_UPDATE_POLICY_STATUS routine
E_POLICY_	1.0	1.0	updates the POLICY_STATUS to PDUP if the policy
STATUS			has become PDUP (paid up).
	None	None	The DB_WAIV_PTD_UPDATE routine updates the
DB_WAIV_	None	None	waiver records paid to date. More specifically, this
PTD_			routine detects any policies on waiver (e.g. current
UPDATE	1		POLICY_STATUS = "WAIV") where the
		1	PAID_TO_DATE field should be updated. If the
	1	ł	PAID_TO_DATE field on a WP policy is equal to or
			less than the current processing date, the routine
		ļ	bumps the PAID_TO_DATE on the POLICY table up
			by 1 week (normally this will happen on Monday
	1		night, since WP PAID_TO_DATES occur on Mondays). If this policy is attached to a billing
			account with no premium paying policies, then the
	1	<b>\</b>	routine also bumps the PAID_TO_DATE on this
	1		billing account. If the PAID_TO_DATE on an MDO
			policy is equal to or less than the current processing
			date, the routine bumps the PAID_TO_DATE on the
		1	POLICY table up by 1 month. If the policy is attached
			to a billing account with no premium paying policies,
1	ŀ		the routine also bumps up the PAID_TO_DATE on
1		1	this billing account. The DB ERRORS LOG PRC
	D INTERIOR	<del> </del>	routine handles all errors.
DB_	D_INPUT_ DATE	None	The DB_MONTLY_COUNTS routine maintains various counts in the COUNT_YTD table for "next
MONTHLY_	DATE		month" relative to the input date. More specifically,
L	J		1 month rotative to the input trate. More specifically,

Routine Name	Input	Output	Description
COUNTS			the first day of the next month relative to the input date is computed and the counts are calculated for this first day of the next month. Some of the counts that are computed include: (1) number of premium paying life policies with MDO and WP debit modes; (2) number of premium paying health policies with MDO and WP debit modes; (3) number of life policies with MDO and WP debit modes in waiver state; (4) the total premium payment amount for the PAYPRM transactions for MDO and WP debit modes; (5) number of policies of extended term insurance type (ETI) with MDO and WP debit modes; (6) number of policies of reduced paid up (RPU) type with MDO and WP debit modes; (7) number of policies surrendered with MDO and WP debit modes; (8) number of policies with death claim processed (DTHP) having MDO and WP debit modes; (9) number of policies with matured endowment processed (MATP) having MDO and WP debit modes; (10) number of lapsed life policies with MDO and WP debit modes; (11) number of paid up policies with MDO and WP debit modes; (12) total annual premium for premium paying life policies with MDO and WP debit modes; and (13) total annual premium for health policies with MDO and WP debit modes. Depending on the above-identified count values, various fields of the COUNT YTD table are updated.

Table III: Batch Reports

Name	Frequency and	Tables	Description
	Criteria	Accessed	
15 Day Lapse Notice DB_RPT27	Frequency: weekly. Criteria: DEBIT_ TRANS_TYPE = "MININT"; LAPSE_ LETTER_SENT = "N"; POLICY_ STATUS = "PPAY."	DEBIT CLIENT; POLICY LOAN TRANS- ACTION	The 15 Day Lapse Notice Report identifies polices having delinquent payments (meeting the 15 day lapse notice criteria). Detailed Information in this report includes: debit client information (CLIENT_ID_NUMBER; LAST_NAME; ADDRESS_LINE_1; ADDRESS_LINE_2; ADDRESS_LINE_3; ADDRESS_LINE_4; ADDRESS_LINE_3; ADDRESS_LINE_4; ADDRESS_STATE_CODE; ADDRESS_ZIP_CODE); policy loan transaction information (POLICY_NUMBER; INTEREST_DUE_DATE; TRANSACTION_AMOUNT). Input Parameters include: P 1; DUE_DATE.
Acknow- ledgement Letter DB_RPT32	Frequency: weekly. Criteria: PAYOR_ TYPE = "P"; POLICY_ STATUS is "PPAY" or "DTHF"; DEBIT_	POLICY STATUS; POLICY PREMIUM BILLING; POLICY MODAL PREMIUM; BILLING ACCOUNT	The Acknowledgment Letter Report generates acknowledgement letters. Detailed information in this report includes: billing account transaction information (BILLING_ACCOUNT_NUMBER; PREMIUM_PAYMENT_AMOUNT; PARTIAL_PAYMENT; PAYMENT_APPLIED_FLAG); billing account payor information (PAYOR_ID_NUMBER; PAYOR_TYPE);

Name	Frequency and	Tables	Description
	Criteria	Accessed	
	MODE = "WP"; PAYMENT_ APPLIED_ FLAG = "Y"; ACK_ LETTER_ SENT = "N"; DEBIT_ TRANS _TYPE = "PAYPRM"	PAYOR; DB_ POLICY; BILLING ACCOUNT TRANS	POLICY_PREMIUM_BILLING_NUMBER; POLICY_STATUS; POLICY_MODAL_PREMIUM; DB policy information (POLICY_TYPE; DEBIT_MODE; INSURED_CIN). Input parameters include: REP_ID; REP_NAME.
Bank Payment Messages DB_RPT57	Frequency: daily. Criteria: PROGRAM_ID = DB_PAYMENT_ PKG	DB_ ERRORS	The Bank Payment Messages Report generates information indicating the results of processing of payments received from the bank(s). Detailed information presented in this report includes: DB errors information (PROGRAM_ID; PROGRAM_RUN_DATE; ERROR_DESC). Input parameters include: REP_ID; REP_NAME.
HLDPRMs Listing DB_RPT52	Frequency: daily. Criteria: DEBIT_TRANS_ TYPE = "HLDPRM"	BILLING ACCOUNT TRANS	The HLDPRMs Listing Report lists the HLDPRM transactions for the billing accounts. Detailed information presented in this report includes: billing account transaction information: BILLING_ACCOUNT NUMBER; DATE_RECEIVED; AMOUNT_RECEIVED). Input parameters include: none.
Health Policy Due To Expire In The Next Calendar Month DB_RPT46	Frequency: monthly. Criteria: POLICY_TYPE = "P"; EXPIRY_DATE between START_DATE and END_DATE	DB POLICY; POLICY STATUS	This report identifies health policies due to expire in the next calendar month. Detailed information presented in this report includes: DB Policy Information (POLICY_NUMBER; EXPIRY_DATE; DEBIT_MODE); policy status information (POLICY_STATUS; START_DATE). Input parameters include: START_DATE; END_DATE; SYS_MAX_DATE; MONTH.
Inforce Policies Due To Mature In The Next Calendar Month DB_RPT43	Frequency: monthly. Criteria: POLICY_ STATUS = "PDUP," "WAIV," "PPAY," "DTHF"; MATURITY_ DATE between START_DATE and END_DATE	DB POLICY; POLICY STATUS	This report identifies in force policies due to mature in the next calendar month. Detailed information presented in this report includes: DB policy information (POLICY_NUMBER; MATURITY_DATE; DEBIT_MODE); policy status information (POLICY_STATUS; START_DATE). Input parameters include: AS_OF_DATE.
Lapsed Policies Due To Expire In The Next Calendar	Frequency: monthly. Criteria: POLICY_ STATUS = "ETI," "DTHF";	DB POLICY POLICY STATUS	This report identifies lapsed policies due to expire in the next calendar month. Detailed information presented in this report includes: DB policy information (POLICY_NUMBER; EXPIRY_DATE; DEBIT_MODE); policy status information (POLICY_STATUS;

Name Fr	equency and	Tables	Description
	riteria	Accessed	Description
	CPIRY_DATE	. accoseu	START_DATE). Input parameters include:
ha	tween		AS_OF_DATE.
DB_RPT47 ST	TART_DATE		
and	d END_DATE		
i Lansen i	equency:	<u>DB</u>	This report identifies lapsed policies due to
Policies Due un	known.	POLICY	mature in the next calendar month. Detailed
To Moture Cri	riteria: DLICY_	POLICY	information presented in this report includes:
m the Next   or	TATUS should	STATUS	DB policy information (POLICY_NUMBER; MATURITY_DATE; DEBIT_MODE); policy
Calendar	in "ETI,"		status information (POLICY_STATUS;
	PU," "PUE" or		START_DATE). Input parameters include:
	THF";		REPORT_DATE.
	ATURITY_		
	EAR between		
1	TART_DATE		•
	d END_DATE   equency;	DEBIT	This report presents loss hilling statement
	eekly.	CLIENT;	This report presents loan billing statements.  Detailed information presented in this report
	iteria:	LOAN	includes: POLICY_NUMBER; NAME;
PA	YOR_TYPE =	BILLING;	ADDRESS. Input parameters include: none
DB_RPT30 "P		POLICY_	
1 1	EBIT_TRANS_	LOAN;	
l .	YPE 'ADDINT";	POLICY_	
t i	LLING .	LOAN_ TRANS-	-
l I	TATEMENT_	ACTION	
1	ENT $\Leftrightarrow$ "Y"		
	equency:	<u>w_</u>	This report displays the loan interest details for
Interest	ily.	LOAN_	the policies. Detailed information presented in
i Collection	riteria: one.	<u>PAYMENT</u>	this report includes: POLICY_NUMBER; SEQUENCE_NUMBER; BATCH_NUMBER;
DB_RPT16	nic.		INTEREST_DUE; MINIMUM_INTEREST
}			DUE; CURRENT_INTEREST_PAID. Input
			parameters include: none
i i asan - i	equency:	D <u>B</u>	This report generates information on loan
Payment On	request.	POLICY;	payment. Detailed information presented in
Report	riteria:	POLICY .	this report includes: POLICY_NUMBER;
DD DDmis	EBIT_TRANS_   YPE in	<u>LOAN</u> TRANS-	DATE_EFFECTED; DATE_RECEIVED; TRANSACTION_TYPE;
	'AYINT,"	ACTION.	TRANSACTION_AMOUNT. Input
"P.	'AYPRIN,"		parameters include: START_DATE;
U"			
	INERNINT,"		END_DATE.
L I	REFPRIN,"		END_DATE.
1 ***	REFPRIN," ADDINT,"		END_DATE.
	REFPRIN," ADDINT," NEWINT,"		END_DATE.
"M	REFPRIN," ADDINT," NEWINT," MININT";		END_DATE.
"M DI	REFPRIN," ADDINT," NEWINT,"		END_DATE.
"M DF in Loan From	REFPRIN," ADDINT," NEWINT," MININT"; EBIT_MODE "MDO," "WP" equency:	DEBIT	This report prints out the loan payoff letters for
DH in Loan From Payoff un	REFPRIN," ADDINT," NEWINT," MININT"; EBIT_MODE "MDO," "WP" equency: defined.	DEBIT CLIENT	This report prints out the loan payoff letters for the selected policies, stating that the policy
Loan From Payoff un Without Cr	REFPRIN," ADDINT," NEWINT," MININT"; EBIT_MODE "MDO," "WP" requency: Idefined. riteria:		This report prints out the loan payoff letters for the selected policies, stating that the policy loans have been paid off. Detailed information
Loan From Payoff unwithout Cr	REFPRIN," ADDINT," NEWINT," MININT"; EBIT_MODE "MDO," "WP" equency: adefined. riteria: FOP_DATE =		This report prints out the loan payoff letters for the selected policies, stating that the policy loans have been paid off. Detailed information presented in this report includes: CURRENT_
Loan From Payoff un Without Cr Refund ST	REFPRIN," ADDINT," NEWINT," MININT"; EBIT_MODE "MDO," "WP" requency: Idefined. riteria:		This report prints out the loan payoff letters for the selected policies, stating that the policy loans have been paid off. Detailed information

Name	Frequency and Criteria	Tables Accessed	Description
	"p"		has been paid off in full). Input parameters include: POLICY_NUMBER.
MDO Coupon Book Listing DB_RPT53	Frequency: undefined. Criteria: ACCOUNT_ STATUS = "A"; PAYOR_TYPE = "P"; POLICY_ STATUS = "PPAY"; DEBIT_MODE = "MDO"; NEXT_COUPON _BOOK_DATE <= SYSDATE + 59; PAYOR_TYPE = "P"	DEBIT_ CLIENT POLICY MODAL PREMIUM POLICY PREMIUM BILLING BILLING ACCOUNT PAYOR BILLING ACCOUNT	This report prints the billing account details having NEXT_COUPON_BOOK_DATE within two months previous to the current date. Detailed information presented in this report includes: BILLING_ACCOUNT_NUMBER; PAID_DATE; NAME; COUPON_DATE. Input parameters include: none.
MDO Coupon Request DB_RPT41	Frequency: weekly. Criteria: ACCOUNT_ STATUS = "A"; PAYOR_TYPE = "P"; POLICY_ STATUS = "PPAY"; DEBIT_MODE = "MDO"; NEXT_COUPON _BOOK_DATE <= TRUNC ((SYSDATE) + 59); PAYOR_TYPE = "P"	DEBIT CLIENT; POLICY MODAL PREMIUM; POLICY PREMIUM BILLING; BILLING ACCOUNT PAYOR; BILLING ACCOUNT; POLICY STATUS	This report prints the billing account details having NEXT_COUPON_BOOK_DATE within two months previous to the current date. Detailed information presented in this report includes: BILLING_ACCOUNT_NUMBER; POLICY_NUMBER; PAID_DATE; LAST_NAME; ADDRESS_LINES 1-4; CITY; STATE_CODE; ZIP_CODE; COUPON_DATE; PAYOR_ID_NUMBER; MODAL_PREMIUM. Input parameters include: BILLING_ACCOUNT_NUMBER; BILLING_ACCOUNT; COUPON_BOOK_DATE.
Minimum Interest Notice For Waiver DB_RPT28	Frequency: weekly. Criteria: DEBIT_TRANS_ TYPE = "MININT"; INTEREST_DUE _DATE > TRUNC(AS_OF_ DATE-5) + 35; INTEREST_DUE _DATE <= TRUNC(AS_OF_ DATE <5) + 42; POLICY_ STATUS =	DEBIT CLIENT POLICY ST ATUS LOAN BIL LING POLICY L OAN TRA NSACTION	This reports presents information pertaining to minimum interest for waivers. Detailed information presented in this report includes: CURRENT_DATE; POLICY_CLIENT_NAME; CLIENT_ADDRESS; POLICY_NUMBER; INSURED_NAME; MINIMUM_POLICY_LOAN_INTEREST_DUE_DATE; Letter Content (stating that the amount of minimum loan interest must be paid within 31 days of the interest due date or policy will lapse). Input parameters include: AS_OF_DATE.

Name	Frequency and	Tables	Description
	Criteria	Accessed	•
Minimum	"WAIV"; PS_POLICY_ STATUS= "DTHF" and PREVIOUS POLICY_ STATUS = "WAIV" Frequency:	DEBIT	This report provides letters stating that the
Premium Due For Premium Paying Policies DB_RPT29	weekly. DEBIT_TRANS_ TYPE = "MININT"; INTEREST_DUE _DATE between 32 and 45 days from AS_OF_DATE; POLICY_ STATUS in "PPAY," "PDUP," "PUE," "DTHF"	CLIENT; POLICY LOAN TRANS- ACTION; LOAN BIL LING; POLICY STATUS	minimum loan interest must be paid within 31 days of the interest due date or the policy will lapse. Detailed information presented in this report includes: debit client information (CLIENT_ID_NUMBER; LAST_NAME; ADDRESS_LINE_1; ADDRESS_LINE_2; ADDRESS_LINE_3; ADDRESS_LINE_4; ADDRESS_STATE_CODE; ADDRESS_ZIP_CODE); policy loan transaction information (POLICY_NUMBER; INTEREST_DUE_DATE). Input parameters include: AS_OF_DATE.
New	Frequency:	<u>DB</u>	This report provides new account notice letters.
Account	not defined.	POLICY;	Detailed information presented in this report includes: billing account information
Notice Letter	Criteria: PAYOR_TYPE	BILLING ACCOUNT	(BILLING ACCOUNT_NUMBER;
<u> Zetter</u>	="P";	PAYOR;	PAID_TO_DATE); DB policy information
DB_RPT08	DEBIT_MODE =	POLICY	(POLICY_TYPE; DEBIT_MODE;
	"WP";	STATUS;	INSURED_CIN); billing account payor
	POLICY_ STATUS =	POLICY MODAL	information (PAYOR_ID_NUMBER; PAYOR_TYPE); policy premium billing
ŀ	"PPAY"	PREMIUM;	information (POLICY_NUMBER);
		POLICY_	POLICY_STATUS; MODAL_PREMIUM.
		PREMIUM_	Input parameters include: REP_ID;
		BILLING; BILLING ACCOUNT.	REP_NAME.
Notice of	Frequency:	DB_	This reports provides notice of lapsed MDO
Lapsed	weekly.	POLICY;	premium due. Detailed information presented
MDO	Criteria:	BILLING	in this report includes: billing account
Premium D	POLICY_	ACCOUNT	information
<u>Due</u>	STATUS = "PPAY";	PAYOR: POLICY	(PARTIAL_PAYMENT_BALANCE); DB policy information (POLICY_TYPE;
DD DDT24	DEBIT_MODE =	STATUS;	DEBIT_MODE; INSURED_CIN); billing
DB_RPT24	"MDO";	BILLING_	account payor information (PAYOR_TYPE);
ł	PAYMENT_APP	ACCOUNT	policy premium billing information
1	LIED_FLAG =	TRANS;	(POLICY_NUMBER); policy status
1	"Y";	POLICY	information (POLICY_STATUS;
	LATE_NOTICE_	PREMIUM	START_DATE); billing account transaction
1	SENT ="N"	BILLING; BILLING	information (BILLING_ACCOUNT_NUMBER; PAID_
		ACCOUNT:	TO_DATE;
		DEBIT_	PREMIUM_PAYMENT_AMOUNT;
		CLIENT	PAYMENT_APPLIED_FLAG); debit client

Name	Frequency and Criteria	Tables Accessed	Description
			information (ADDRESS_LINE_1; ADDRESS_LINE_2; ADDRESS_LINE_3; ADDRESS_LINE_4; ADDRESS_CITY; ADDRESS_STATE_CODE; ADDRESS_ZIP_CODE). Input parameters include: REP_ID; REP_NAME.
Notice Of Lapsed Weekly Premium Due DB_RPT25	Frequency: weekly. Criteria: POLICY_ STATUS = "PPAY," "DTHF"; DEBIT_MODE = "WP"; PAYMENT_ APPLIED_FLAG = "Y"; LATE_NOTICE_ SENT = "N"	DB POLICY; BILLING ACCOUNT PAYOR; POLICY STATUS; BILLING ACCOUNT TRANS; POLICY PREMIUM BILLING; BILLING ACCOUNT; DEBIT CLIENT.	This report provides notice of lapsed weekly premiums due. Detailed information presented in this report includes: billing account information (PARTIAL_PAYMENT_BALANCE); DB policy information (POLICY_TYPE; DEBIT_MODE; INSURED_CIN; PAID_UP_DATE); billing account payor information (PAYOR_TYPE); policy premium billing information (POLICY_NUMBER); Policy status information (POLICY_STATUS; START_DATE) billing account transaction information (BILLING_ACCOUNT_NUMBER; PAID_TO_DATE; PREMIUM_PAYMENT_AMOUNT; PAYMENT_APPLIED_FLAG); debit client information (LAST_NAME; ADDRESS_LINE_1; ADDRESS_LINE_4; ADDRESS_LINE_3; ADDRESS_LINE_4; ADDRESS_STATE_CODE; ADDRESS_ZIP_CODE). Input parameters include: REPORT_ID; REPORT_NAME.
PAYINIT Transac- tions - Not Applied DB_RPT59	Frequency: not defined. Criteria: DEBIT_TRANS_ TYPE= "PAYINT"; TRANSAC- TION_AMOUNT = 0	POLICY LOAN TRANS- ACTION;	This report identifies PAYINIT transactions not applied. Detailed information presented in this report includes policy loan transaction information, including: POLICY_NUMBER; DEBIT_TRANSACTION_TYPE; DATE_RECEIVED; AMOUNT_RECEIVED; TRANSACTION_AMOUNT. Input parameters include: none.
Policies Lapsed For Non- payment Of Premium DB_RPT09	Frequency: weekly. Criteria: POLICY_ STATUS equals "PPAY"	DB_ POLICY; POLICY_ STATUS; POLICY_ PREMIUM_ BILLING	This report identifies policies lapsed for non-payment of premium. Detailed information presented in this report includes: DB policy information (POLICY_NUMBER; PAID_TO_DATE; DEBIT_MODE). Input parameters include: REPORT_ID; REPORT_NAME; SYSTEM_MAXIMUM_DATE; INC_DATE.
Policies Not Premium Paid for 31 Davs DB_RPT05	Frequency: weekly. Criteria: POLICY_ STATUS equals "PPAY"	DB_ POLICY; POLICY STATUS; POLICY MODAL PREMIUM	This report identifies policies in which the premium has not been paid for 31 days.  Detailed information presented in this report includes: DB policy information (POLICY_NUMBER; PAID_TO_DATE;  DEBIT_MODE; DATE_LAST_PAID); policy modal premium information (MODAL_PREMIUM). Input parameters

Name	Frequency and	Tables	Description
	Criteria	Accessed	
TD 11 1	<b>-</b>	77	include: REP_ID; REP_NAME.
Policies Overdue For Minimum Interest Payment DB_RPT39	Frequency: weekly. Criteria: POLICY_ STATUS in "PPAY," "WAIV," "PDUP," "PUE," or equals "DTHF"; DEBIT_TRANS_ TYPE equals MININT	DB POLICY: POLICY STATUS: POLICY LOAN TRANS- ACTION	This report presents information regarding policies overdue on account of overdue minimum interest payment. Detailed information presented in this report includes: DB policy information (DEBIT_MODE); Policy Loan Transaction information (POLICY_NUMBER; INTEREST_DUE_DATE; MINIMUM_INTEREST); policy status information (POLICY_STATUS; START_DATE). Input parameters include: P_REP_ID; P_REP_NAME.
Policies On Waiver Due To Mature DB_RPT37	Frequency: monthly. Criteria: POLICY_ STATUS equals "WAIV"	DB_ POLICY POLICY_ STATUS	This report provides information regarding policies on waiver due to mature. Detailed information presented in this report includes: DB policy information (POLICY_NUMBER; MATURITY_DATE; DEBIT_MODE) policy loan transaction information (POLICY_NUMBER; INTEREST_DUE_DATE; MINIMUM INTEREST); policy status information (POLICY_STATUS; START_DATE). Input parameters include: P_REP_ID; P_REP_NAME.
Policy Modal Premium Decrease Notification  DB_RPT14	Frequency: not defined. Criteria: STOP_DATE = predefined date, e.g., "12th Dec 2099"	POLICY PREMIUM BILLING; DB POLICY; POLICY STATUS; DEBIT CLIENT	This report provides notification of a decrease in policy modal premium. Detailed information presented in this report includes: BILLING_ACCOUNT_NUMBER; DEBIT_MODE; POLICY_STATUS; NAME_LAST. Input parameters include: POLICY_NUMBER; PREVIOUS_PREMIUM_VALUE; CURRENT_PREMIUM_VALUE; PREMIUM_START_DATE; COVERAGE_SEQUENCE; START_DATE.
Premium Payments Report (DB_RPT10	Frequency: daily. Criteria: none.	W_BATCH_PAYMENT	This report identifies premium payments. Detailed information presented in this report includes: W_BATCH_PAYMENT information (BILLING_ACCOUNT_NUMBER; CHECK_DIGIT; DATE_ PROCESSED; BATCH_NUMBER; SEQUENCE_ NUMBER_5; COMPANY_CODE_2; PREMIUM_DUE; PREVIOUS_AMOUNT_PAID; CURRENT_AMOUNT_PAID). Input parameters include: REP ID; REP NAME.
Rider Expiry Date Or "YOC" Coming Due Date  DB_RPT01	Frequency: monthly. Criteria: COVERAGE SEQUENCE greater than 1; Order by DEBIT_ MODE in	DB_ POLICY: POLICY_ COVER- AGE	This report presents information pertaining to rider expiry date or YOC (year of change) coming due date. Detailed information presented in this report includes: DB policy information (POLICY_NUMBER; DEBIT_MODE; policy coverage information (COVERAGE_SEQUENCE; PLAN_CODE; STOP_DATE). Input parameters include:

Name	Frequency and	Tables	Description
	Criteria	Accessed	
	descending order		PRESENT_DATE.
WP	Frequency:	DB_	This report provide weekly premium (WP)
Reminder	daily.	POLICY;	reminder notices. Detailed information
Notice	Criteria:	POLICY	presented in this report includes:
	PAYOR_TYPE =	STATUS;	DB policy information (INSURED_CIN;
DB_RPT33	"P";	POLICY_	POLICY_TYPE; DEBIT_MODE); POLICY
	DEBIT_MODE =	MODAL_	STATUS Information (POLICY_STATUS);
	"WP";	PREMIUM;	policy modal premium information
	POLICY_	POLICY_	(MODAL_PREMIUM); policy premium
	STATUS	<u>PREMIUM</u>	billing information (POLICY_NUMBER);
	="PPAY";	BILLING;	billing account transaction information
	PARAMETER_	BILLING	(BILLING_ACCOUNT_NUMBER; PAID_
	APPLIED_FLAG	ACCOUNT	UP_DATE;
1	= "Y";	<u>TRANS</u> ;	PREMIUM_PAYMENT_AMOUNT;
ŀ	number of modal	BILLING	PAYMENT_APPLIED_FLAG); billing
	premiums paid >=	ACCOUNT	account payor information (PAYOR ID
1	13;	PAYOR;	NUMBER; PAYOR TYPE); billing account
}	DEBIT_TRANS_	BILLING_	information (CHECK_DIGIT). Input
ļ	TYPE =	ACCOUNT.	parameters include: REP_ID; REP_NAME.
1	"PAYPRM"		
<b></b>			

Table IV: Exemplary Screen Descriptions

Screen Name	Tables Accessed	Description
Policy Data Screen (DB_POLCY) (FIG. 11)	DB_POLICY, DEBIT_CLIENT	The Policy Data Screen pulls up policy details in response to input of a policy number. The "UPDATE INSURED NAME" and "UPDATE BENEFICIARY NAME" buttons on the screen allow the user to modify the beneficiary and insured names, respectively. The "RESTORE LOST POLICY" button allows the user to add policies in case the policy details are not found.
Policy Coverage (DB_POLCV) (FIG. 12)	POLICY_ COVERAGE	The Policy Coverage Screen allows the user to add or modify coverage record details for a policy in response to input of a policy number. The "Coverage Sequence" listed on the screen is generated by the insurance processing system 102 for each coverage record.
Policy Status Screen (DB_POLST) (FIG. 13)	POLICY_ STATUS	The Policy Status Screen retrieves the status of a policy for various date ranges. Further, the user can query on an existing policy number to retrieve status information pertaining to the policy. Further, the "GENERATE REFUND" button allows the user to generate a premium refund for policies that have become paid up. The "REVERSE REFUND" button allows the user to reverse the refund operation.
Policy Summary (DB_POLSU) (FIG. 14)	DB_POLICY	The Policy Summary Screen provides summary details for a policy in response to the input of a valid policy number. In one embodiment, this screen does not permit users to modify the data presented on the screen.

C N	Tables Assessed	In.
Screen Name	Tables Accessed	Description The Politica New York Countries of Countries
Non Converted	POLICIES_NOT_ CONVERTED	The Policies Not Converted Screen presents information pertaining to policies that are not
Policies	CONVERTED	
DB_POLNC		converted into the Debit system. In one
(FIG. 15)		embodiment, the polices are stored in a representation 115 of an "old" mainframe system
		(such as the "previous system" 114 shown in FIG. 1).
D-1:M-4	DB_POLICY	
Policy Maturity	DB_FOLICI	The Policy Maturity Year Screen allows a user to make corrections to maturity dates for policies.
Year Screen		More specifically, this screen lists policies having
(DB_MATUR)		blank (i.e., unspecified) maturity dates because the
(FIG. 16)		data was lost on the previous system 114. Users may
		query on "Maturity Year," "Policy Begin," or
		"Policy End." A user may view the maturity dates
	ł	corrected by a particular user by querying on the user
		ID and placing a check in the "Corrected Maturity
	<u> </u>	Dates" checkbox.
Billing Account	BILLING	The Premium Billing Account Screen presents
Information	ACCOUNT,	billing account details in response to input of
1	POLICY_	Account number, Account status, Paid to Date,
Screen	PREMIUM	Discount Code, or Policy Type (e.g., WP, MDO).
DB_BLACT	BILLING	This screen enables the user to add policies or
(FIGS. 17 and 18)		remove policies for a billing account. Further, this
		screen enables a user to add a new billing account.
Billing Account	POLICY	The Billing Account Policy Association Screen
Policy	PREMIUM_	shows the association between a billing account and
Association	BILLING	its policies. The screen enables users to query on
DB_PREBG		either policy number, billing account number, or
(FIG. 19)		both. Further, this screen allows users to add
(,		policies or remove policies associated with a
D:11:	DILL DIC ACCO	particular billing account.
Billing Account	BILLING_ACCO UNT_TRANS	The Billing Account Transaction Screen permits the user to fetch billing account transaction details, as
Transaction	ONI_IKANS	well as enter new payment transactions, by entering a
(DB_BLTRN)	Ì	valid billing account number. When the user enters
(FIG. 20)		the "Amount Received" and invokes the "APPLY
		PAYMENT" button, the system calculates the
		number of modal premiums corresponding to the
		"Amount Received" and "Premium Payment"
		variables. The system adds a balance amount (if any
		exists) to the partial payment field. When the partial
		payment reaches one modal premium, the system
	1	creates a record in the
		BILLING ACCOUNT TRANS table with
	L DOLLAGY.	transaction type SYSPRM.
Policy Modal	POLICY	The Policy Modal Premium Information Screen
Premium	MODAL	retrieves modal premiums for policies in a specified
Information	PREMIUM	date range. The screen allows a user to query on an
(DB_MODPR)		existing policy number and then add a new modal premium, as well as its start date.
(FIG. 21)		premium, as wen as no stall date.
Premium Refund	PREMIUM REF	The Premium Refund Information Screen allows a
Information	UND	user to view and make premium refunds. In
(DB_PRREF)		operation, the screen enables a user to query on a
(FIG. 22)		policy number and then generate a refund or reverse
/		a refund by pressing the "GENERATE REFUND"
	L	and "REVERSE REFUND" buttons, respectively.

Screen Name	Tables Accessed	Decemination
ocreen Mame	Tables Accessed	Description  Further, the screen gives the user the option to apply
		the balance paid up amount to other policies or to
		refund it. If any premium payment exists, then the
	Ì	system will call the Billing Account Transaction
	DDCD (WD (	Screen and generate a record there.
Premium Waiver	PREMIUM	The Premium Refund Information Screen retrieves
Screen	WAIVER	policies along with the date ranges for which the
(DB_PRWAI)	·	policies are in waiver state. The user can instruct the
(FIG. 23)	<u> </u>	system to generate a refund for premiums paid
		during the waiver period by invoking the "Generate
		Refund" button. In response, the system generates a
		Refund Sequence No. for that policy. A user may
	}	instruct the system to perform a reverse refund
<u> </u>		transaction (if needed) by invoking the "Reverse
		Refund" button. Further, a user can terminate the
		waiver status for a policy by invoking the
		"Terminate Waiver" button. A user may also terminate a waiver by pressing "Reverse
		Terminate a waiver by pressing Reverse  Termination" button.
7	POLICY_LOAN,	The Loan Maintenance Screen retrieves the loan
Loan	DEBIT CLIENT;	transactions for a policy in response to entry of a
Maintenance	POLICY LOAN	valid policy number. A user may view the loan
Screen	TRANSACTION	details (such date due, minint, etc.) by pressing the
(DB_LOANP)	IKANSACTION	arrow button (in lower right of screen). Further, the
(FIGS, 24 and 25)		screen allows a user to add a new loan for the
		displayed policy. Further still, this screen enables a
		user to modify the "Payor Name" and "Address." In
		this particular exemplary application, a user may also
		modify the subscriber's Florida Name and Address.
Loan Quote and	LOAN_	The Loan Approval and Loan Quote Screens allow
_	APPROVAL	the user to process new loans. More specifically, the
Approval Quote		screens enable a user to query on an existing policy
(DB_LNQOT)		number to view the loan details. In order to process
(FIG. 26)	1	a new loan, the screen prompts the user to enter a
(DB_LNAPP)	1	policy number, loan date, and loan amount. In one
(FIG. 27)		embodiment, the loan amount should be less than the
	}	cash surrender value for the policy. When the user
		presses the "Loan Approval" button, the system
		approves or denies the loan (e.g., depending on the
•		CSV value). The screen indicates whether the
		system has approved or denied the loan by posting a
		"Y" or "N" symbol in the "Approval Indicator" field.
Policy Loan	POLICY LOAN	The Policy Loan Screen retrieves loan details for the
Master	-	policies. This screen allows the user to modify the
(DB_PLOAN)		interest rates applicable to the loans.
(FIG. 28)		
Cash Surrender	DB POLICY	The Cash Surrender Quote Screen allows the user to
Quote		query on a valid policy number to retrieve the Cash
1 -		Surrender Value (CSV) details for the corresponding
(DB_CSVQU)		policy. In one embodiment, the screen does not
(FIG. 29)		permit users to modify any of the fields on the
	_l _	screen.
Cash Surrender	POLICY_CSV	The Cash Surrender Value Screen allows users to
Value	TRANSACTION	generate and reverse cash surrender value
(DB_CSVRV)		transactions for an identified policy. The screen
(DD_COVKV)		1

Screen Name	Tables Accessed	Description
(FIG. 30)  CSV Rate (DB_CSVRT)	CSV_RATE	permits the user to query on an existing policy number. By invoking the "Cash Surrender" button, the system calculates the CSV amount for the identified policy. More specifically, to calculate the CSV amount for the policy, the system fetches the ISSUE_AGE, PLAN_CODE, RATE_BOOK, and UNITS values from the POLICY_COVERAGE table. The system uses these values, in conjunction with the CSV_RATE table, to compute the CSV amount. The user may reverse the surrendered policy by activating the "Reverse" button.  The CSV Rate Screen retrieves and displays the Cash Surrender Value factor table. The system
(FIG. 31)		calculates the CSV amount for a policy using this CSV factor table. In one embodiment, the screen does not permit the user to add or modify the rate books.
Plan Codes (DB_PLCOD) (FIG. 32)	PLAN CODES	The Plan Code Screen retrieves the plan codes and the corresponding plan descriptions from the data storage 206. The screen allows a user to add or modify plan codes.
Policy CSV Transaction DB_CSVTR (FIG. 33)	POLICY CSV TRANSACTION	The Policy CSV Transaction Screen retrieves the CSV transaction records for a policy. The screen permits a user to add a new CSV transaction, or to modify an existing CSV transaction.
Extended Values Main Screen (DB_EXTVA) (FIG. 34)	DB POLICY	The Extended Values Main Screen allows a user to modify the policy type to an Extended Term Insurance (ETI) type or a Reduced Paid Up (RPU) type. In operation, the user calls up a policy by entering a valid policy number. The system calculates the CSV amount and the number of years of extended term or the reduced paid up coverage available from that amount. The system then adds this information to the CSV_TRANSACTION table and changes the status of the policy to ETI or RPU depending on whether the Extended Term Insurance or Reduced Paid Up options are selected, respectively.
Extended Term Insurance (DB_REVEX) (FIG. 35)	POLICY_CSV_ TRANSACTION	The Extended Term Insurance Screen retrieves the details of an Extended Term Insurance-type policy when the user inputs a valid policy number of the LPNVL or ETI type. The screen permits the user to restore the status to its prior state by activating the "Reverse" button, but only if the policy was premium-paying or in waiver state.
Reduced Paid Up Screen (DB_REVRP) (FIG. 36)	POLICY CSV_ TRANSACTION	The Reduced Paid Up Screen retrieves details of a RPU-type policy in response to the user inputting a valid policy number of the RPU-type. In one embodiment, the screen permits the previous status of the policy to be restored by pressing the "Reverse" button, but only if the policy was premium-paying or in waiver state.
Extended Rate (DB_EXTRT) (FIG. 37)	EXT RATE	The Extended Rate Screen retrieves the extended rate factor table used during conversion of a policy to ETI-type. In one embodiment, the screen does not

Screen Name	Tables Accessed	Description
		permit the user to add or modify the rate book.
Access Role Entry Screen (DB_ACROL) (FIG. 38)	DB ACCESS ROLE	The Access Role Entry Screen permits an administrator to control access to the interface screens. More specifically, this screen pulls up a list of roles and privileges currently applicable for the screens. The screen permits the user to add, modify or delete access roles and privileges for the screens.
Error Message Screen (DB_ERDEF) (FIG. 39)	DB ERROR MESSAGE DEF	The Error Message Entry Screen retrieves and displays error messages (along with associated error types and error numbers) generated by the debit system's screens.
Report Definition Screen (DB_RPTDF) (FIG. 40)	DB_REPORT_ DEF	The Report Definition Screen retrieves and displays valid report IDs and associated report names and run modes (specifying whether report is online or batch). The screen permits a user to add, modify or delete a report.
Form Definition Screen (DB_SCREN) (FIG. 41)	DB SCREEN DEF	The Form Definition Screen retrieves all of the valid screen IDs and screen names in the debit system from the data storage 206. The screen permits a user to add, modify or delete ID and name information.
Actuarial Extracts Request Screen (DB_ACEXF) (FIG. 42)	None .	The Actuarial Extracts Screen allows a user to generate an actuarial extract file for use by actuarial personnel within an organization. In operation, the user enters the date and location of the extract file. The user then creates the actuarial extracts file by pressing the "Generate Extracts" button.
Error Log (DB_ERROR) (FIG. 43)	DB ERRORS	The Error Log Screen retrieves the details of the errors generated during execution of the batch programs (which are trapped in the <u>DB_ERRORS</u> table). The screens allows a user to query on the batch "Program name," "Run by," or "Run date" fields to retrieve the error messages.

Table V: On-Line Reports

Name	Frequency & Criteria	Tables	Description
Changes to Policies on Waiver  DB_RPT36	Frequency: daily. Criteria: not defined.	POLICY STATUS	This report presents information on changes to policies on waiver. Detailed information in this report includes: POLICY_NUMBER; START_DATE; STOP_DATE. Input parameters include: FROM_DATE; TO_DATE.
Checklist of Policies Cash Surrendered DB_RPT07	Frequency: daily. Criteria: not defined.	DB POLICY; POLICY CSV TRANS- ACTION; POLICY ST ATUS	This report provide a checklist concerning policies that have been cash surrendered.  Detailed information in this report includes: policy cash surrender value transaction information (POLICY_NUMBER; CSV_EFFECTIVE_ DATE; INTEREST_REFUND / DEDUCT; PREMIUM_ REFUND / DEDUCT; SURRENDER_AMOUNT; LOAN_ BALANCE_AMOUNT; DEBIT_MODE;

Name	Frequency & Criteria	Tables	Description
Debit PINQ Report DB_PINQ	& Criteria  Frequency: daily Criteria: not defined	DB_POLICY; DEBIT_CLIENT; POLICY COVER-AGE; POLICY LOAN; POLICY MODAL PRIMIUM; POLICY STATUS	POLICY_START_DATE. Input parameters include: START_DATE; STOP_DATE.  The Debit PINQ Report includes the following information: debit policy information (POLICY_NUMBER; POLICY_ISSUE_DATE; POLICY_PAID_UP_DATE; POLICY_EXPIRY_DATE; DATE_LAST_PAID; PAID_TO_DATE; POLICY_MATURITY_DATE; MATURITY_ REPORTED; POLICY_TYPE; DEBIT_MODE; INDUSTRIAL_FLAG; YEAR_OF_CHANGE_DATE; INSURED_CIN; VALUATION_CLASS; BENEFICIARY_CIN; APPLICANT_AGE_RANGE; MATURITY_EXPIRY YEAR; CONVERSION_STATUS); policy status information (POLICY_STATUS; POLICY_START_DATE); debit client information (LAST_NAME; TAX_IDENTIFICATION_NUMBER; ADDRESS_STATE_CODE; MODAL_PREMIUM); policy coverage information (PLAN_CODE; SEX_RELATIONSHIP; AMOUNT_OF_INSURANCE; ULTIMATE_FACE_AMOUNT; ISSUE_AGE); policy loan information (INTEREST_RATE; INTEREST_NEXT_DUE_DATE). Input
Extended Value Report DB_RPT35	Frequency: daily. Criteria: not defined.	POLICY CSV TRANS- ACTION; POLICY STATUS	parameters include: MATURITY_YEAR  This report provides information pertaining to extended value-related matters. Detailed information presented in this report includes: policy CSV transaction information (POLICY_NUMBER; CSV_EFFECTIVE_DATE; CSV_TRANSACTION_TYPE; SURRENDER_AMOUNT; EXTENTION_TERM_YEAR; EXTENTION_TERM_DAYS; REDUCED_PAID_UP_AMOUNT); POLICY_STATUS. Input parameters include: FROM_DATE; TO_DATE.
Invalid Billing Accounts DB_RPT17	Frequency: daily. Criteria: not defined.	BILLING_ ACCOUNT	This report provides information pertaining to invalid billing accounts. Information presented in this report includes: BILLING_ACCOUNT_NUMBER; DEBIT_MODE; PAID_ TO_DATE; PARTIAL_PAYMENT_BALANCE. Input parameters include: none
Lapses And Revivals With Loans	Frequency: daily. Criteria: not defined.	POLICY STATUS; POLICY LOAN	This report provides information concerning lapses and revivals associated with loans.  Detailed information presented in this report includes: policy status information

Name	Frequency & Criteria	Tables	Description
DB_RPT18	·	TRANS- ACTION; DB POLICY	(POLICY_STATUS; POLICY_START_DATE; POLICY_STOP_DATE); DB policy information (POLICY_UMBER; DEBIT_MODE); policy loan transaction information (TRANSACTION_EFFECTIVE_ DATE; TRANSACTION_AMOUNT). Input parameters include: EFFECTIVE_FROM_DATE; EFFECTIVE_TO_ DATE.
Loan ADDINT Transactions Listings DB_RPT48	Frequency: daily. Criteria: not defined.	POLICY LOAN TRANS ACTION.	This report presents loan ADDINT transactions listings. Detailed information presented in this report includes: policy loan transaction information (POLICY_NUMBER; DEBIT_TRANSACTION_TYPE; TRANSACTION_EFFECTIVE_DATE); TRANSACTION_ AMOUNT. Input parameters include: EFFECTIVE_FROM_DATE; EFFECTIVE_TO_DATE.
Loan Activity Report DB_RPT21	Frequency: daily: Criteria: not define.	POLICY LOAN TRANS- ACTION;	This report presents loan activity report information. Detailed information presented in the report includes: policy loan transaction information (POLICY_NUMBER; DEBIT_TRANSACTION_TYPE; TRANSACTION_EFFECTIVE_DATE; DATE_OF_RECEIVE; TRANSACTION_AMOUNT). Input parameters include: EFFECTIVE_FROM_DATE; EFFECTIVE_TO_DATE; FROM_POLICY; TO_POLICY.
WP Policies Loan Payment Statement DB_RPT49	Frequency: on request. Criteria: not defined.	POLICY LOAN TRANS- ACTION	This report presents a WP policies loan payment statement. Detailed information presented in this report includes: BEGINNING_BALANCE; BEGINNING_COUNT; NEW_LOANS; REINSTATED; INTEREST; ADJUSTMENTS; LAPSES; CURRENT_WEEK_BALANCE; ENDING_COUNT. Input parameters include: START_DATE; END_DATE.
Loan Payment Report  DB_RPT11	Frequency: on request. Criteria: DEBIT_ TRANS_ TYPE in "PAYINT," "PAYPRIN," "UNERNINT," "REFPRIN," "ADDINT," "NEWINT," "MININT"; DEBIT_	DB POLICY; POLICY LO AN TRANS- ACTION	This reports presents loan payment information. Detailed information presented in this report includes: POLICY_NUMBER; DATE_EFFECTED; DATE_RECEIVED; TRANSACTION_TYPE; TRANSACTION_AMOUNT. Input parameters include: START_DATE; END_DATE

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Name	Frequency & Criteria	Tables	Description
	MODE in "MDO," "WP"		
Loan Payoff List DB_RPT22	Frequency: weekly. Criteria: Debit_Trans_ Type = "PAYPRIN"	POLICY LOAN; POLICY LOAN TRANS- ACTION	This reports presents a loan payoff list. Detailed information presented in this report includes: POLICY_NUMBER; PAY_OFF_DATE; PRINCIPAL_PAYMENT_AMOUNT; UNEARNED_INTEREST; BALANCE_AMOUNT_BEFORE_PAYMEN T. Input parameters include: FROM_DATE; TO_DATE;
MDO/WP Excess Loan Report DB_RPT58	Frequency: on request. Criteria: COVERAGE SEQUENCE = 1; POLICY_ STATUS in "PPAY," "WAIV," "PDUP"	POLICY LOAN; DB OLICY; POLICY COVER- AGE; POLICY STATUS;	This reports presents information concerning MDO/WP excess loan matters. Detailed information presented in this report includes: POLICY_NUMBER; RATE; PLAN_CODE; ISSUE_AGE; ISSUE_DATE; INSURANCE_AMOUNT; CSV_AMOUNT; LOAN_AMOUNT; EXCESS_AMOUNT; INT_RATE; INT_YR; MAT_YR. Input parameters include: AS_OF_DATE.
Minimum Interest Due Report DB_RPT19	Frequency: on request. Criteria: POLICY_ STATUS in "PPAY," "WAIV," "PDUP," "PUE," "DTHF"; INTEREST_D UE_DATE < SYS_DATE; DEBIT_TRAN S TYPE = "MININT"	POLICY STATUS; DB_ POLICY; POLICY LOAN TRANS- ACTION	This report includes the following detailed information: POLICY_TYPE; POLICY_NUMBER; INTEREST_DUE_DATE; MINIMUM_INTEREST_AMOUNT. Input parameters include: none
New and Additional Loans Reports (DB_RPT20	Frequency: on request. Criteria: DEBIT_ TRANS- ACTION_ TYPE ="NEW- LOAN"	DB POLICY; POLICY LOAN; POLICY LOAN TRANS- ACTION	This report provides information regarding new additional loans. Detailed information presented in this report includes: POLICY_NUMBER; ANNIVERSARY_DATE; PREVIOUS_LOAN_BALANCE; NEW_LOAN_BALANCE; INTEREST_RATE. Input parameters include: START_DATE; END_DATE.
Paid up Policy Notification DB_RPT15	Frequency: on request. Criteria: STOP_DATE = predefined date, e.g., 12-Dec-2099;	DEBIT CLIENT; POLICY MODEL PREMIUM; DB POLICY;	This report provides notification of a paid up policy. Detailed information presented in this report includes: NAME; ADDRESS; POLICY_NUMBER; ACCOUNT_NUMBER; NAME_OF_INSURED; AMOUNT_OF_INSURANCE; ISSUE_AGE; POLICY_DATE; PAID_UP_DATE;

Name	Frequency	Tables	Description
	& Criteria		-
	START_ DATE, PAID_ UP_DATE <= SYSDATE; PDUP_LET- TER_SENT = "N"	POLICY STATUS; POLICY COVER- AGE; POLICY PREMIUM BILLING; BILLING ACCOUNT PAYOR	PREMIUM; OUT- STANDING_LOAN_AMOUNT_AS_OF_ DATE. Input parameters include: none
Paid Up Refund Report DB_RPT06	Frequency: on request. Criteria: REFUND_ TYPE = "PUP"	DB POLICY; PREMIUM REFUND	This report provides information regarding paid up refunds. Detailed information presented in this report includes: POLICY_NUMBER; PAID_UP_ DATE; REFUND_AMOUNT; Total. Input parameters include: START_DATE; STOP_ DATE.
Payments From Bank(s) - Received & Applied DB_RPT60	Frequency: on request. Criteria: none	W BATCH PAYMENT; BILLING ACCOUNT TRANS	This report presents information regarding payments received from the banks, and subsequently applied. Detailed information presented in this report includes:  ACCOUNT_NO; PREMIUM_DUE;  AMOUNT_MODAL_PREMIUMS;  TRANSACTION_TYPE; PAID_TO_DATE;  PREMIUM_PAYMENT;  PARTIAL_PAYMENT;  PAYMENT_STATUS. Input parameters include: none
Policies Going On Waiver During a Requested Time Period DB_RPT40	Frequency: on request. Criteria: WAIVER_ START_ DATE = Max(WAIVER _STATE_ DATE) for each Policy	PREMIUM WAIVER	This report displays the policies going on waiver during a specified input date range for WP and MDO debit modes. Detailed information presented in this report includes: POLICY_NUMBER; WAIVER_START_DATE; PREMIUM_REFUND_AMOUNT; TOTAL_REFUND_ AMOUNT (for WP and MDO); GRAND_TOTAL_OF_REFUND (WP + MDO). Input parameters include: FROM_DATE; TO_DATE.
Policy Data Form DB_RPT38	Frequency: unspecified; Criteria: CSV_TRANS_ TYPE = "s"; COVERAGE_ SEQUENCE = 1; REVERSAL_ ENTRY_ DATE is null	DB POLICY: POLICY LOAN; POLICY CSY TRANS- ACTION; POLICY COVER- AGE;	This Report displays CSV details for a selected input policy. Detailed information presented in this report includes: POLICY_NUMBER; NAME_OF_INSURED; EFFECTIVE_DATE; AGE_AT_ISSUE; DATE_OF_ISSUE; TYPE_OF_INSURANCE; DURATION; POLICY_AMOUNT; YEAR_OF_CHANGE; INTEREST_PAID_TO_YEAR; OUTSTANDING_LOAN; INTEREST_RATE; INTEREST_DEDUCTION; GROSS_VALUE; NET_VALUE. Input parameters include: POLICY_NUMBER.
Policy Number Order List	Frequency: on request. Criteria: POLICY_	DB_ POLICY; POLICY_ LOAN;	Detailed information presented in this report includes: POLICY_NUMBER; ISSUE_DATE; STATUS; PLAN; AGE; AMOUNT; RATE; YEAR; LOAN; NAME_OF_THE_INSURED;

Name	Frequency & Criteria	Tables	Description
DB_RPT62	STATUS IN ("PDUP," "PPAY," "WAIV"); COVERAGE_ SEQUENCE = 1	POLICY STATUS; POLICY COVER- AGE; POLICY LOAN TRANS- ACTION	TOTAL_FOR_THE_LOAN (WP AND MDO DEBIT TYPES). Input parameters include: none
Policy Status Change Report DB_RPT04	Frequency: not defined. Criteria: none	DB POLICY; POLICY MODAL PREMIUM; POLICY STATUS; POLICY COVER- AGE; POLICY LOAN TRANS- ACTION	This report displays the policies (along with their respective statuses) for a specified input date range. Old and new status may also be displayed for the policies. This report can also display the policies having old and new status, as determined by the input parameters.  Detailed information presented in this report includes: POLICY_NUMBER; OLD_STATUS; NEW_STATUS; START_DATE; DATE_LAST_PAID; CURRENT_ PREMIUM_AMOUNT; LAST_DATE_RECEIVED; DEATH_CLAIM_INFO_SEND. Input parameters include: FROM_DATE; NEW_DATE; OLD_STATUS; NEW_STATUS.
Policy Status Change Report (Having Loans) DB_RPT50	Frequency: on request. Criteria: not defined.	DB POLICY; POLICY MODAL PREMIUM; POLICY STATUS; POLICY LOAN TRANS- ACTION	This report displays the policies (having loan transactions) along with the status (old and new status) for a given input date range. It can also display the policies having old and new status, as determined by the input parameters.  Detailed information presented in this report includes: POLICY_NUMBER; OLD_STATUS; NEW_STATUS; START_DATE; DATE_LAST_PAID; LOAN_AMOUNT; CURRENT_PREMIUM_AMOUNT. INPUT PARAMETERS INCLUDE: FROM_DATE; NEW_DATE; OLD_STATUS; NEW_STATUS.
Premium Entered On a Given Day DB_RPT03	Frequency: on request: Criteria: DEBIT_ TRAN_ TYPE IN "PAYPRM," "PARTIAL"; PAYMENT_ APPLIED_FL AG is "Y"	BILLING ACCOUNT TRANS	This reports provides information regarding premiums entered on a given day. Detailed information in this report includes: ACCOUNT_NUMBER; TRANSACTION_TYPE; AMOUNT_ RECEIVED; PREMIUM_PAYMENT; PARTIAL_PAYMENT; PAID_TO_DATE. Input parameters include: FROM_ DATE; TO_DATE; USER-ENTERED /TOTAL.
Premium Refund Report	Frequency: on request. Criteria: CSV_TRANS_	POLICY STATUS; POLICY CSV	This reports displays the details of the reversal or extended cash surrender transactions for WP and MDO debit modes. Detailed information presented in this report includes:

Name	Frequency & Criteria	Tables	Description
DB_RPT02	TYPE = "S"	TRANS- ACTION	POLICY_NUMBER; EFF_DATE; STATUS; PRIOR_EFF DATE; PRIOR_STATUS; EXTENDED_TERM_PERIOD; CSV_AMOUNT. Input parameters include: FROM_DATE; TO_DATE.
Reversal of Cash Surrender DB_RPT42	Frequency: on request. CSV_TRANS_ TYPE = "S"	POLICY STATUS; POLICY CSV TRANS- ACTION	This report displays the details of the cash surrender transactions for WP and MDO debit modes. Detailed information presented in this report includes: POLICY_NUMBER; EFFECTIVE_DATE; STATUS; PRIOR_EFFECTIVE_DATE; PRIOR_STATUS; EXTENDED_TERM PERIOD; CSV_AMOUNT. Input parameters include: FROM_DATE; TO_DATE.
Reversal of Extended Value DB_RPT34	Frequency: on request. Criteria: CSV_TRANS_ TYPE IN ("E,"	POLICY _STATUS; POLICY _CSV_ TRANS- ACTION	This report displays the details of the reversal or extended cash surrender transaction operation.  Detailed information presented in this report includes: POLICY_NUMBER; EFF_DATE; STATUS; PRIOR_EFF_DATE; PRIOR_STATUS; EXTENDED_TERM_PERIOD; RPU_AMOUNT. Input parameters include: FROM_DATE; TO_DATE.
Totals By Month - MDO Loans DB_RPT56	Frequency: on request. Criteria: DEBIT_ MODE = MDO; POLICY_ STATUS IN ("PPAY," "WAIV," "PDUP")	DB POLICY; POLICY LOAN; POLICY LOAN TRANS ACTION; POLICY STATUS	This report displays the interest rate along with corresponding loan total for each month. It also displays the summary of the loan total for all months for each interest rate and the grand total. Detailed information presented in this report includes: MONTH; INTEREST_RATE; LOAN_TOTAL; TOTAL_5%; TOTAL_6%; GRAND_TOTAL. Input parameters include: AS_OF_DATE.
Totals By Month - Wp Loans DC_RPT54	Frequency: on request. Criteria: DEBIT_ MODE = WP; POLICY_ STATUS IN ("PPAY," "WAIV," "PDUP")	DB POLICY: POLICY LOAN; POLICY LOAN TRANS- ACTION; POLICY STATUS	This report displays the interest rate along with corresponding loan amount total for each month. It also displays the loan total summary for each interest rate for all the months and the grand total. Detailed information presented in this report includes: Month; Interest_Rate; Loan_Total; Total_5%; Total_6%; Grand_Total. Input parameters include: As_Of_Date.
WP/MDO Inforce Health Policies DB_RPT63	Frequency: on request. Critieria: POLICY_ TYPE = "H" POLICY_ STATUS IN (PPAY,WAIV, PDUP)	POLICY STATUS; DEBIT CLIENT; DB POLICY;	This reports provides a WP/MDO in-force health policies list. Detailed information presented in this report includes: INSURED; POLICY_NUMBER; ISSUE_DATE; DEBIT_MODE; EXPIRY_DATE. Input parameters include: none.

Name	Frequency & Criteria	Tables	Description
Weekly Life And Health Premium Report DC_RPT51	Frequency: on-request Criteria: undefined.	None	This Report displays the total premiums for the life and health policies for the WP and MDO type of policies. Detailed information presented in this report includes: total premium for life and health policies for WP and MDO types of policies. Input parameters include: FROM_DATE; TO_DATE.

Table VI: Glossary

interface	In one embodiment, an interface refers to a screen, also known as a "Graphical User Interface" (GUI), that allows a user to access and manipulate data in storage		
batch payments	Batch payments refer to payments that are sent by the policyholders to a bank accompanied by a billing "stub" that identifies the billing account to which the payment should be applied. The bank then notifies the insurance company on a daily basis that the payments have been received.		
batch processing	Batch processing refers to computer programs executed by operators to carry out large-scale processing against a database. Usually such processing runs at night when users are not online.		
benefit	A benefit refers to an amount of money to be made under the policy contract when certain events occur, such as when the insured dies, etc.		
billing account	This refers to an account used for billing for premiums for one or more insurance policies. The account includes a payor name and address, a total modal premium (the sum of modal premiums of all policies on the account), and a payment next due date associated with a billing account.		
cash surrender value	This value pertains to an amount of money at any given time during the life of a policy that the policyowner will receive if he or she cancels the coverage provided by the policy and surrender the policy to the insurance company.		
conversion	Conversion refers to the transfer of data from the data storage for an old system to the data storage for a new system, with any manipulations as may be required, so that the data can (from that point forward) be processed by the processing logic of the new system.		
coverage (policy coverage)	Coverage refers to the life that is insured by an insurance policy. The "base" coverage of a policy refers to the insurance for the "primary" insured on the policy. There may be secondary insureds, such as a spouse or children.		
data storage	A data storage comprises any media for electronically storing data on a computer system. Such computer system may include a server PC, a LAN-based system, tape or disk, mainframe storage mechanism, etc. The data may be structured as a relational database or may adopt some other structure.		
death claim	A death claim refers to a request for payment under the terms of an insurance policy upon death of the insured		

expire	A policy against when it terminates without value A terminates
ехрие	A policy expires when it terminates without value. A term
	policy usually expires (terminates without remaining value) when the term of insurance ends.
extended term insurance	
extended term hisdrance	This refers to a non-forfeiture option in which the net cash value of a policy is applied as a single net premium to
	purchase term insurance.
extended values processing	
extended varues processing	Extended values processing refers to a logical processing
	performed (computation of cash surrender value, etc.) in order
external quotom	to lapse a policy to extended term status.
external system	An extended system is a system that exists independently of
	another system, but the two systems can communicate
	(exchange data) with each other and perform needed processing on behalf of each other.
holding transaction	
noiding transaction	A holding transaction is a transaction that records a payment against a particular policy or account but does not "apply" the
	payment because the payment amount does not match a billed
	amount and therefore it is not yet known how the payor
	intended the payment to be applied.
interest (loan)	In one case, interest refers to the annual interest charged to a
morest (lean)	policy loan.
lapse	Lapse refers to any termination from an "inforce" status to a
inpot .	non-inforce status or from a premium-paying status to a non-
	premium paying status. For instance, policies which go from
	premium-paying status to extended term, or any policies that
	go to surrendered, or death-claim paid status are said to have
	"lapsed."
loan processing	Loan processing refers to logical processing performed in
	order to: set up a loan on a policy, charge annual interest, bill
	for annual interest, record payments against principal or
	interest, etc.
matching payment	A payment where the dollar amount of the payment matches:
	(1) a multiple of a billing account's modal premium in the
	case of a premium payment; or (2) the amount of annual
	interest billed in the case of a loan payment.
mature	A policy is said to mature when it reaches the date on which
	the cash value of the policy equals the face amount of
<u> </u>	insurance paid by the policy.
matured endowment	This refers to an insurance policy where the cash value has
	become equal to the face amount of the insurance paid by the
	policy (and the insured is still living).
maturity claim	A maturity claim is a request for payment under the terms of
	an insurance policy upon the policy having reached maturity.
minimum interest	This refers to a minimum amount that the policyholder must
	pay to keep a policy with a loan in force, because otherwise
	the cash value of the policy will be less than the outstanding
iman fafa anti 1	loan amount on the policy.
mirror [of a retired system]	A "mirror" pertains to a storage of data on a new system that
•	records the value of all data fields on all policies as they
model pramium	existed when an old system was converted to the new system.
modal premium	A modal premium pertains to a minimum premium amount
	which must be contractually paid on a periodic basis (e.g.,
non forfaiture richts	either weekly or monthly) to keep the policy in force.
non-forfeiture rights	A policyholder has rights to use the built-up or remaining
	cash value of a policy in order to continue to have insurance
	coverage for some length of time after the policyholder elects
	to discontinue paying premiums.

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non-matching payment	A non-matching payment is a payment where the dollar
	amount of the payment does not match: (1) a multiple of a
	billing account's modal premium in the case of a premium
	payment; or (2) the amount of annual interest billed in the
	case of a loan payment.
maturity date	The maturity date is the calendar date as of which the cash
	value of an endowment policy will be equal to the policy's
	face value (insurance value).
paid to date	This is the date up to which a policy will remain in force
pad to date	based on the premiums paid to date.
paid up date	This is the calendar date as of which all premium payments
paid up date	contractually agreed to under the terms of a policy will have
	been made.
policy maintenance	Policy maintenance refers to processing involved in the
	administration of a policy, such as maintaining insured name
	and date of birth, tracking cease dates of coverage and
	benefits, recording policy status as of any given date, etc.
premium billing and payment	This refers to printing and mailing billing statements, and then
processing	applying payments that are received (crediting them to
	particular policies).
premium-paying status	A premium-paying status refers to a status indicating that a
	policy is in force and requires additional premium payments
	to remain in force (the policy is not yet paid up).
premium refund	A premium refund refers to a refund of premium payments to
F	the policyholder because for some reason excess payments
	have been received.
principal (loan)	The principal on a loan is the amount of a loan on a policy
i principai (ioan)	before interest has been added.
reduced paid up insurance	This term refers to a non-forfeiture option wherein the cash
l reduced paid up hisurance	surrender value is used to buy an amount of paid up insurance
	that will mature on the same date as the maturity date of the
	<u> </u>
4. 1	original policy.
retired system	A retired system refers to a computer-based processing
	system that is no longer used. In the context used herein, it is
ŀ	the "ancestor" system of the current (new) system. A
ļ.	conversion is carried out in order to transfer data from the
	retired system to the new system.
rider	. I. A. 1. 1
	A rider is an additional or "secondary" coverage under an
	insurance policy.
surrender	insurance policy.  To surrender a policy means to stop premium payments on a
	insurance policy.  To surrender a policy means to stop premium payments on a policy and receive a payment of the cash value of the policy.
surrender unearned interest	insurance policy.  To surrender a policy means to stop premium payments on a
	insurance policy.  To surrender a policy means to stop premium payments on a policy and receive a payment of the cash value of the policy.
	insurance policy.  To surrender a policy means to stop premium payments on a policy and receive a payment of the cash value of the policy.  When a payment is made against loan principal, this is the
unearned interest	insurance policy.  To surrender a policy means to stop premium payments on a policy and receive a payment of the cash value of the policy.  When a payment is made against loan principal, this is the amount of the annual interest that must be refunded to the policyholder because interest is charged in advance.
	insurance policy.  To surrender a policy means to stop premium payments on a policy and receive a payment of the cash value of the policy.  When a payment is made against loan principal, this is the amount of the annual interest that must be refunded to the policyholder because interest is charged in advance.  Waiver processing refers to processing that must be carried
unearned interest	insurance policy.  To surrender a policy means to stop premium payments on a policy and receive a payment of the cash value of the policy.  When a payment is made against loan principal, this is the amount of the annual interest that must be refunded to the policyholder because interest is charged in advance.  Waiver processing refers to processing that must be carried out when insurance premiums are waived because the insured
unearned interest	insurance policy.  To surrender a policy means to stop premium payments on a policy and receive a payment of the cash value of the policy.  When a payment is made against loan principal, this is the amount of the annual interest that must be refunded to the policyholder because interest is charged in advance.  Waiver processing refers to processing that must be carried out when insurance premiums are waived because the insured has become disabled and the policy carried a disability rider.
unearned interest	insurance policy.  To surrender a policy means to stop premium payments on a policy and receive a payment of the cash value of the policy.  When a payment is made against loan principal, this is the amount of the annual interest that must be refunded to the policyholder because interest is charged in advance.  Waiver processing refers to processing that must be carried out when insurance premiums are waived because the insured has become disabled and the policy carried a disability rider.  After a policy has gone into premium-waiver status, the
unearned interest	insurance policy.  To surrender a policy means to stop premium payments on a policy and receive a payment of the cash value of the policy.  When a payment is made against loan principal, this is the amount of the annual interest that must be refunded to the policyholder because interest is charged in advance.  Waiver processing refers to processing that must be carried out when insurance premiums are waived because the insured has become disabled and the policy carried a disability rider. After a policy has gone into premium-waiver status, the premiums are in essence paid by the insurance company. If
unearned interest	insurance policy.  To surrender a policy means to stop premium payments on a policy and receive a payment of the cash value of the policy.  When a payment is made against loan principal, this is the amount of the annual interest that must be refunded to the policyholder because interest is charged in advance.  Waiver processing refers to processing that must be carried out when insurance premiums are waived because the insured has become disabled and the policy carried a disability rider. After a policy has gone into premium-waiver status, the premiums are in essence paid by the insurance company. If the insured does not remain disabled indefinitely, the policy
waiver processing	insurance policy.  To surrender a policy means to stop premium payments on a policy and receive a payment of the cash value of the policy.  When a payment is made against loan principal, this is the amount of the annual interest that must be refunded to the policyholder because interest is charged in advance.  Waiver processing refers to processing that must be carried out when insurance premiums are waived because the insured has become disabled and the policy carried a disability rider. After a policy has gone into premium-waiver status, the premiums are in essence paid by the insurance company. If the insured does not remain disabled indefinitely, the policy may resume premium-paying status.
unearned interest	insurance policy.  To surrender a policy means to stop premium payments on a policy and receive a payment of the cash value of the policy.  When a payment is made against loan principal, this is the amount of the annual interest that must be refunded to the policyholder because interest is charged in advance.  Waiver processing refers to processing that must be carried out when insurance premiums are waived because the insured has become disabled and the policy carried a disability rider. After a policy has gone into premium-waiver status, the premiums are in essence paid by the insurance company. If the insured does not remain disabled indefinitely, the policy may resume premium-paying status.  Such a status indicates that premiums are no longer being paid
unearned interest waiver processing	insurance policy.  To surrender a policy means to stop premium payments on a policy and receive a payment of the cash value of the policy.  When a payment is made against loan principal, this is the amount of the annual interest that must be refunded to the policyholder because interest is charged in advance.  Waiver processing refers to processing that must be carried out when insurance premiums are waived because the insured has become disabled and the policy carried a disability rider. After a policy has gone into premium-waiver status, the premiums are in essence paid by the insurance company. If the insured does not remain disabled indefinitely, the policy may resume premium-paying status.  Such a status indicates that premiums are no longer being paid by the policyholder because of a disability. The policy
waiver processing	insurance policy.  To surrender a policy means to stop premium payments on a policy and receive a payment of the cash value of the policy.  When a payment is made against loan principal, this is the amount of the annual interest that must be refunded to the policyholder because interest is charged in advance.  Waiver processing refers to processing that must be carried out when insurance premiums are waived because the insured has become disabled and the policy carried a disability rider. After a policy has gone into premium-waiver status, the premiums are in essence paid by the insurance company. If the insured does not remain disabled indefinitely, the policy may resume premium-paying status.  Such a status indicates that premiums are no longer being paid

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Other modifications and variations to the embodiments described above can be made without departing from the spirit and scope of the invention, as is intended to be encompassed by the following claims and their legal equivalents.

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## WHAT IS CLAIMED IS:

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1 A system for administering a financial program involving the collection of payments, comprising:

a debit system for coordinating the administration of the financial program, including:

interface logic for allowing a user to interact with the debit system;

batch processing logic for performing batch processing associated with the financial program;

at least one support system coupled to the debit system for handling an aspect of the administration of the financial program, and for communicating with the debit system; and

a data storage for storing data tables used by the debit system in the administration of the financial program, the data storage also including a representation of information as maintained by a retired system previously used for administering the financial program.

2. The system of claim 1, wherein the interface logic includes at least one of:

interface logic for performing policy maintenance;

interface logic for administering billing and premium payment;

interface logic for performing waiver processing;

interface logic for performing loan processing;

interface logic for performing cash surrender value processing;

20 interface logic for performing extended value processing;

interface logic for performing system-related maintenance; and

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- 66 -

interface logic for accessing the representation of information as maintained by the retired system.

- 3. The system of claim 1, wherein the batch processing logic includes logic for receiving notification of payments from a funds collector.
- 4. The system of claim 1, wherein the batch processing logic includes logic for interacting with the at least one support system.

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- 5. The system of claim 1, wherein the at least one support system comprises one of:
  - a death claims system for handling insurance claims pertaining to deaths;
- a matured endowment system for handling matured endowment-related matters; 10 and
  - a waiver of premium system for handling waiver of premium processing.
  - 6. The system of claim 1, wherein the financial program involves the performance of plural processing routines to handle different aspects of the financial program, and the system includes functionality that facilitates interaction between these different processing routines.
  - 7. The system of claim 2, wherein the interface logic for accessing the representation of information as maintained by the retired system includes logic for retrieving policy information therefrom.
    - 8. The system of claim 1, wherein the financial program is an insurance program.
  - 9. The system of claim 8, wherein the insurance program includes payment due dates occurring weekly or monthly.
  - 10. The system of claim 1, wherein the system is implemented as a server in the context of a client-server architecture.

- 11. The system of claim 1, wherein the data storage is implemented as a relational database.
- 12. A method for administering a financial program involving the collection of payments, including:
- providing a debit service for coordinating the administration of the financial program, the debit service being coupled to a data storage, the data storage including converted records as well as a representation of information as maintained by a retired system previously used for administering the financial program;

providing an interface for interacting with the debit service;

receiving a request, via the interface, from a user for information regarding a financial policy;

determining whether the policy may be obtained from the converted records stored in the data storage;

retrieving the policy from the converted records if the policy may be obtained therefrom; and

retrieving the policy from the representation of information as maintained by the retired system if the policy cannot be obtained from the converted records.

- 13. The method of claim 12, where the interface permits the user to access at least one of the interface functions of:
- an interface function for performing policy maintenance;
  an interface function for administering billing and premium payment;

an interface function for performing waiver processing;

an interface function for performing loan processing;

an interface function for performing cash surrender value processing;

- 68 -

an interface function for performing extended value processing; an interface function for performing system-related maintenance.

- 14. The method of claim 12, wherein the policy obtained from the representation of information as maintained by the retired system pertains to a policy that was not transferred to the debit service upon introduction of the debit service.
- 15. The method of claim 12, wherein the financial program is an insurance program.

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- 16. The method of claim 15, wherein the insurance program includes payment due dates occurring weekly or monthly.
- 17. A system for administering a financial program involving the collection of payments, including:

a debit system for coordinating the administration of the financial program, including:

interface logic for allowing a user to interact with the debit system;

batch processing logic for performing batch processing associated with the financial program;

at least one support system coupled to the debit system for handling an aspect of the administration of the financial program, and for communicating with the debit system; and

a data storage for storing data tables used by the debit system in the administration of the financial program,

wherein the interface logic includes:

interface logic for performing basic policy maintenance;

interface logic for administering billing and premium payment;

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interface logic for performing waiver processing;
interface logic for performing loan processing;
interface logic for performing cash surrender value processing;
interface logic for performing extended value processing; and
interface logic for performing system-related maintenance.

18. A method for administering a financial program involving the collection of payments, including:

providing a debit service for coordinating the administration of the financial program, the debit service being coupled to a data storage;

providing an interface for interacting with the debit service;

providing a user with an option to select from the functions of:

an interface function for performing basic policy maintenance;

an interface function for administering billing and premium payment;

an interface function for performing waiver processing;

an interface function for performing loan processing;
an interface function for performing cash surrender value processing;
an interface function for performing extended value processing;
an interface function for performing system-related maintenance; and providing the selected function to the user.

19. A computer-readable medium for administering a financial program involving the collection of payments, when executing by processing logic, including:

- 70 -

interface logic for allowing a user to interact with a debit service;

batch processing logic for performing batch processing associated with the financial program;

wherein the interface logic includes at least one of:

interface logic for performing basic policy maintenance;

interface logic for administering billing and premium payment;

interface logic for performing waiver processing;

interface logic for performing loan processing;

interface logic for performing cash surrender value processing;

interface logic for performing extended value processing;

interface logic for performing system-related maintenance on the debit system; and

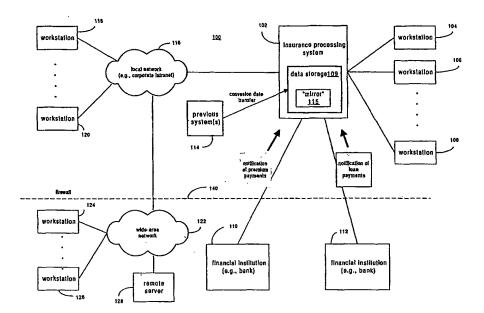
interface logic for accessing a representation of information as maintained by a retired system, wherein the retired system was previously used for administering the financial program

- 20. The medium of claim 19, wherein the financial program is an insurance program.
- 21. The medium of claim 20, wherein the insurance program includes payment due dates occurring weekly or monthly.

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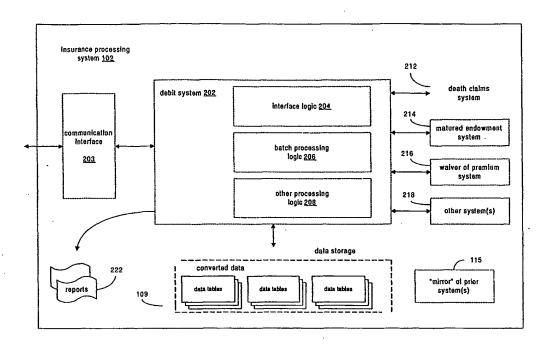


FIG. 2

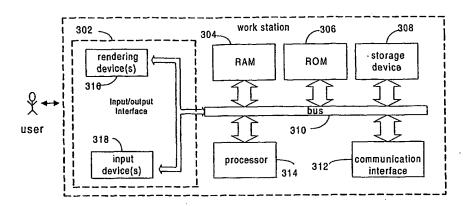


FIG. 3

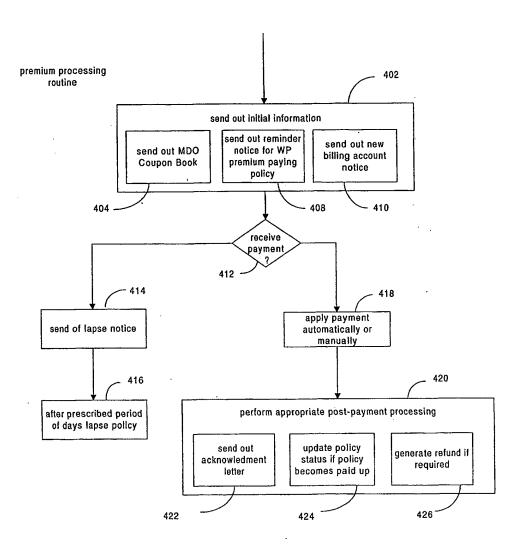


FIG. 4

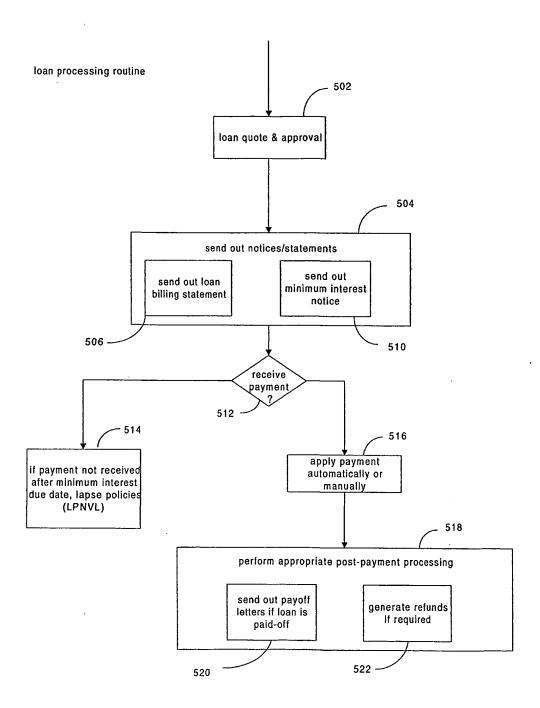


FIG. 5

waiver of premium processing

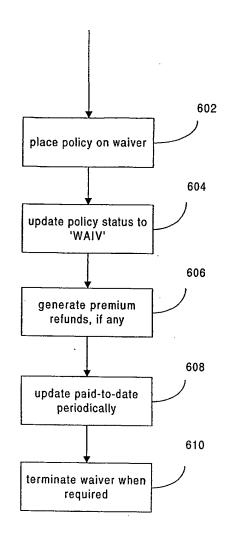


FIG. 6

cash surrender processing

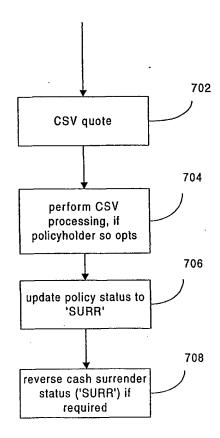


FIG. 7

extended value processing

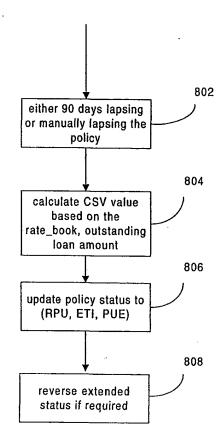


FIG. 8

death claims processing

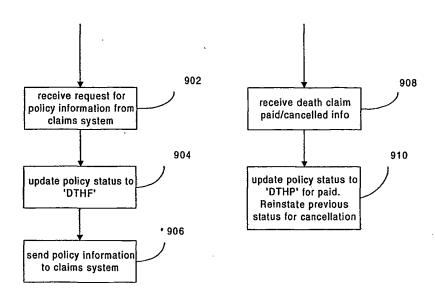


FIG. 9

## maturity processing

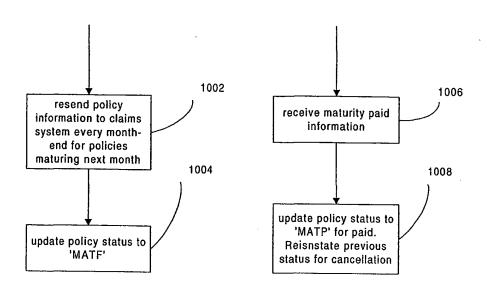


FIG. 10

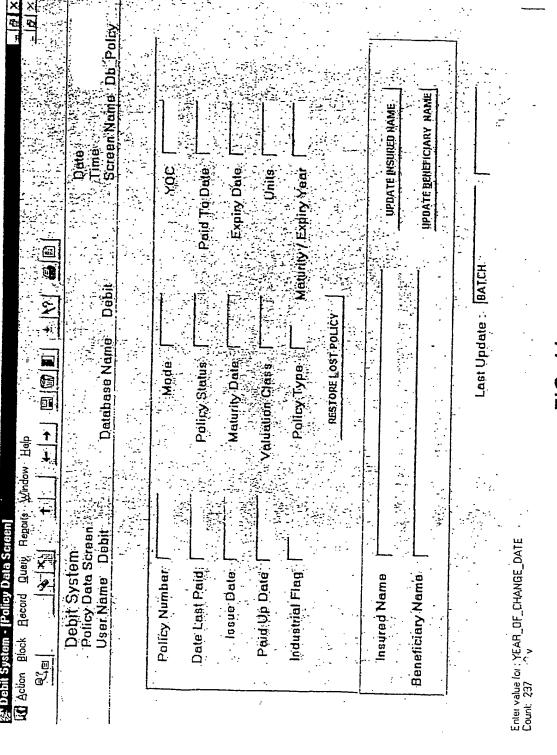


FIG. 11

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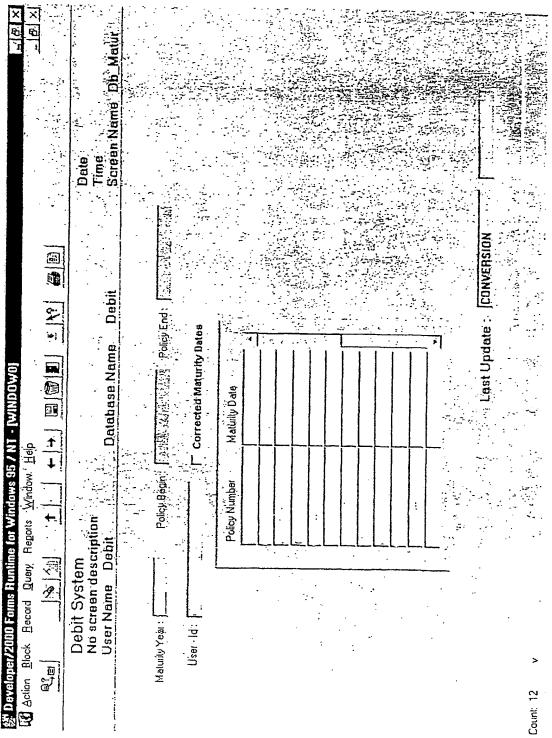
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FIG. 15





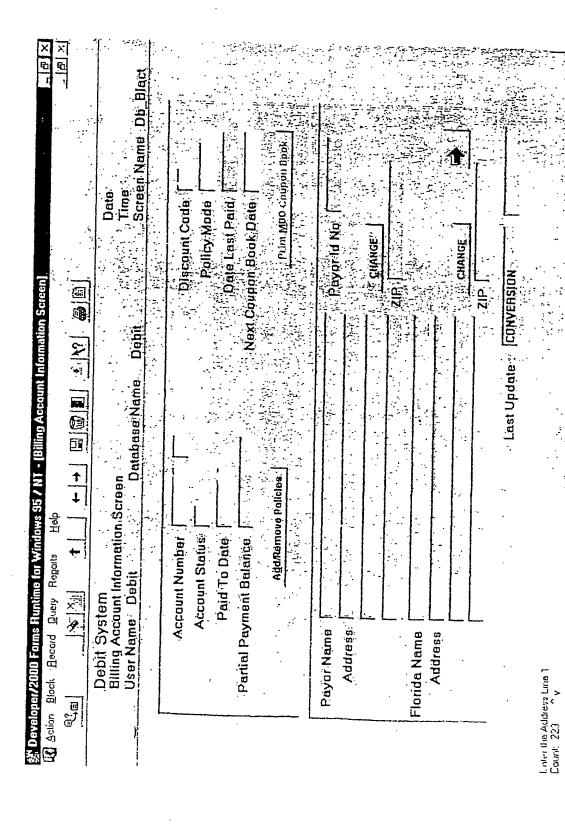
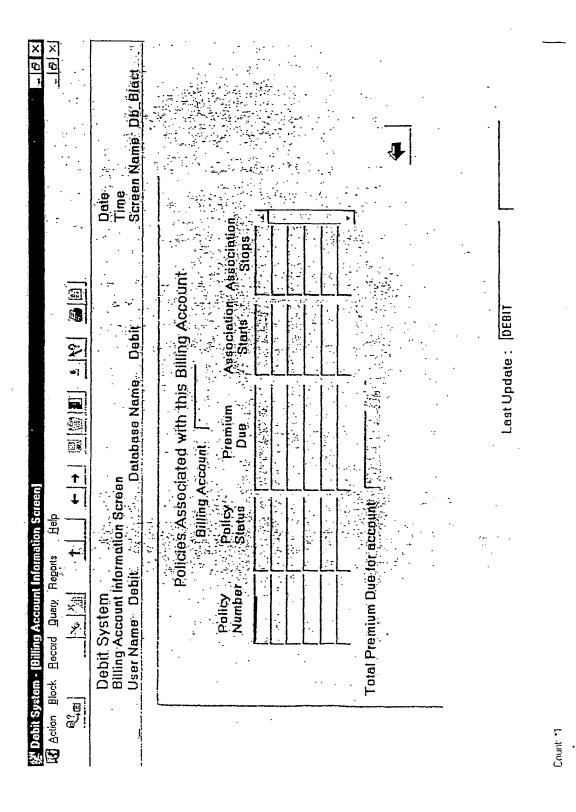


FIG. 17



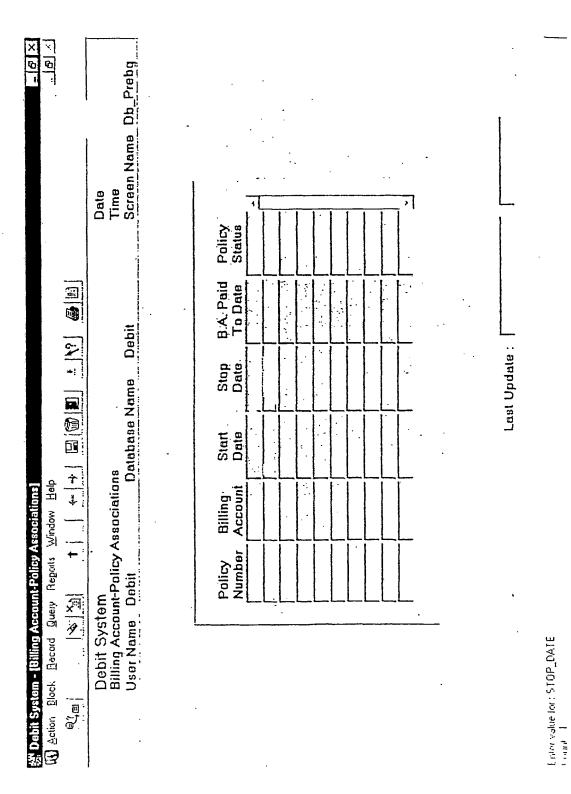
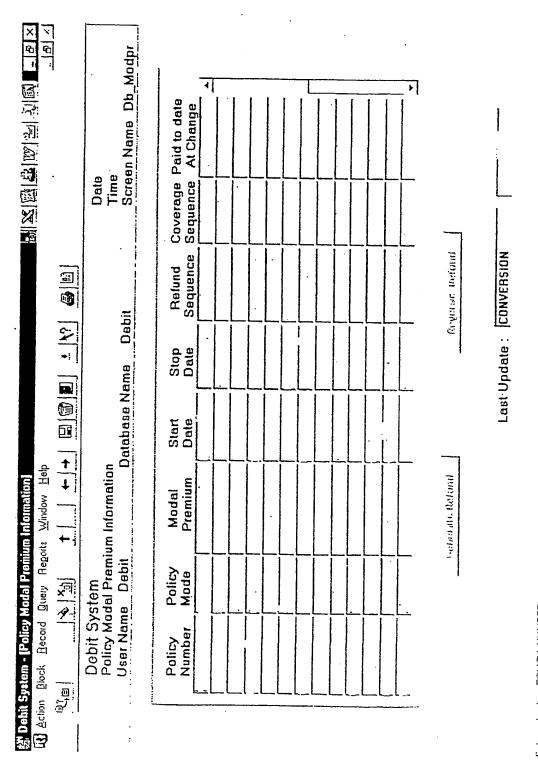


FIG. 4

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FIG. 20

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FIG. 22

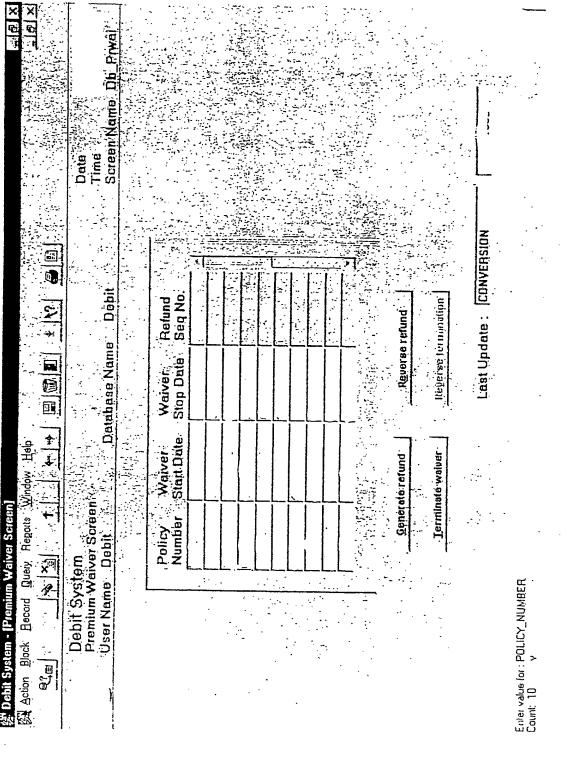


FIG. 23

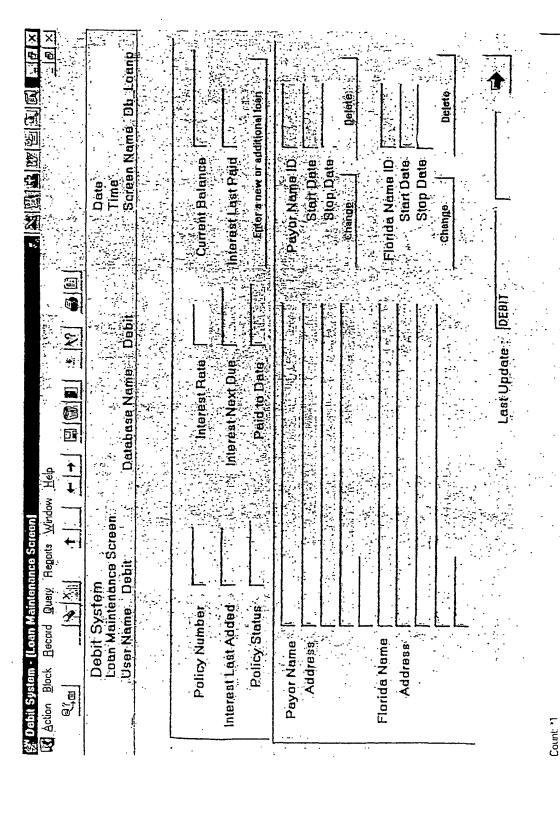


FIG. 24

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FIG. 37

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FIG. 38

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FIG. 41

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FIG. 42

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FIG. 43

## INTERNATIONAL SEARCH REPORT

International application No. PCT/US01/41646

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) :G06F 17/60											
US CL : 705/4, 38, 39											
According to International Patent Classification (IPC) or to both national classification and IPC											
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U.S. : 705/4, 38, 39											
Documentat searched	ion searched other than minimum documentation to	the exte	nt that such documents are in	icluded in the fields							
Electronic d	lata base consulted during the international search (na	ame of da	ita base and, where practicable	e, search terms used)							
C. DOCUMENTS CONSIDERED TO BE RELEVANT											
Category*	Citation of document, with indication, where app	oropriate,	of the relevant passages	Relevant to claim !							
Х	US 5,819,230 A (CHRISTIE et al) 06 October 1998, col. 4, line29- col. 7, line 65, col. 8, line 5-col. 10, line 64, col. 11, line 1-col. 14, line 8										
Х	US 5,752,236 A (SEXTON et al) 12 May 1998, col. 6, line52-col. 8, line 62, col. 9, line 10-col. 12, line 63, col. 13, line 5-col. 18, line 60										
A	US 4,839,804 A (ROBERTS et al) 13 June 1989, col. 5, line 10-col. 10, line 59, col. 11, line 1-col. 16, line 68, col. 17, line 23-col. 23, line 5, col. 24, line 58-col. 25, line 47										
A	US 4,876,648 A (LLOYD) 24 October	1-7, 10-17, 19-									
Furt	ther documents are listed in the continuation of Box (	c. 🔲	See patent family annex.								
"A" do	pecial categories of cited documents: comment defining the general state of the art which is not considered	"Tu	later document published after the int date and not in conflict with the app the principle or theory underlying th	lication but cited to underst							
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ci	comment which may throw doubts on priority claim(s) or which is tod to establish the publication date of another citation or other	when the document is taken alone  "Y" document of particular relevance; the claimed invention c:									
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Date of the actual completion of the international search  Date of mailing of the international search report											
25 OCT	OBER 2001	06 DEC 2001									
	mailing address of the ISA/US oner of Patents and Trademarks	Authorized officer VICENT MILLIN Yolande Vener									
	on, D.C. 20231	Telephone No. 1709) 789 1065									